

4-12-07




PTO/SB/08a (08-03)

Approved for use through 07/31/2008. OMB 0851-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> (Not for submission under 37 CFR 1.99)	Application Number		10777030
	Filing Date		2004-02-11
	First Named Inventor	Samuel I. STUPP et al.	
	Art Unit	1654	
	Examiner Name	David Lukton	
	Attorney Docket Number	NANO 110 US3 (NU 22109/23)	

U.S. PATENTS						
Examiner Initial*	Cite No	Patent Number	Kind Code <sup>1</sup>	Issue Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear
	1	5871767		1999-02-16	Dionne et al.	
	2	6156321		2000-12-05	Thorpe et al.	
	3	6265539	B1	2001-07-24	Arlinghaus	
	4	6270765	B1	2001-08-07	Deo et al.	
	5	6458924	B2	2002-10-01	Knudsen et al.	
	6	6548048	B1	2003-04-15	Cuthbertson et al.	
	7	6855329	B1	2005-02-15	Shakesheff et al.	
If you wish to add additional U.S. Patent citation information please click the Add button.						
U.S. PATENT APPLICATION PUBLICATIONS						

David Lukton 5-11-07

<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> (Not for submission under 37 CFR 1.99)	Application Number		10777030	
	Filing Date		2004-02-11	
	First Named Inventor	Samuel I. STUPP et al.		
	Art Unit	1654		
	Examiner Name	David Lukton		
	Attorney Docket Number	NANO 110 US3 (NU 22109/23)		

Examiner Initial*	Cite No	Publication Number	Kind Code <sup>1</sup>	Publication Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear
<i>DL</i>	1	20030092672	A1	2003-05-15	Darcy et al.	
<i>DL</i>	2	20050214257	A1	2005-09-29	Zhao et al.	

If you wish to add additional U.S. Published Application citation information please click the Add button.

#### FOREIGN PATENT DOCUMENTS

Examiner Initial*	Cite No	Foreign Document Number <sup>3</sup>	Country Code <sup>2</sup>	Kind Code <sup>4</sup>	Publication Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear	T <sup>5</sup>
<i>X</i>	1	99/36107	WO		1999-07-22	Shakesheff et al.		<input type="checkbox"/>

If you wish to add additional Foreign Patent Document citation information please click the Add button

#### NON-PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>5</sup>
<i>DL</i>	1	Nomizu, Motoyoshi, Atsushi Utani, Norio Shiraishi, Maura C. Kibbey, Yoshihiko Yamada, and Peter P. Roller. July 15, 1992. "The All-D-Configuration Segment Containing the IKVAV Sequence of Laminin A Chain Has Similar Activities to the All-L-Peptide in Vitro and in Vivo." The Journal of Biological Chemistry. Vol. 267, No. 20, pp. 14118-14121.	<input type="checkbox"/>
<i>DL</i>	2	Margomenou-Leonidopoulou, G. 1994. "Thermotropic Mesophases of Ionic Amphiphiles. II. Ionic Amphiphiles in Aqueous Media." Journal of Thermal Analysis. Vol. 42, pp. 1041-1061.	<input type="checkbox"/>
<i>DL</i>	3	Rappolt, Michael and Gert Rapp. 1996. "Structure of the Stable and Metastable Ripple Phase of Dipalmitoylphosphatidylcholine." Eur. Biophys. J. Vol. 24, pp. 381-386.	<input type="checkbox"/>

*Dr. Lukton 5-11-07*



<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> (Not for submission under 37 CFR 1.99)	Application Number		10777030
	Filing Date		2004-02-11
	First Named Inventor	Samuel I. STUPP et al.	
	Art Unit	1654	
	Examiner Name	David Lukton	
	Attorney Docket Number	NANO 110 US3 (NU 22109/23)	

DL	4	Goveas, J. L. and S. T. Milner. 1997. "Dynamics of the Lamellar—Cylindrical Transition in Weakly Segregated Diblock Copolymer Melts." <i>Macromolecules</i> . Vol. 30, No. 9, pp. 2605-2612.	<input type="checkbox"/>
	5	Munson, John B. and Stephen B. McMahon. 1997. "Effects of GDNF on Axotomized Sensory and Motor Neurons in Adult Rats." <i>European Journal of Neuroscience</i> . Vol. 9, pp. 1126-1129.	<input type="checkbox"/>
	6	Fernandez, A., M. A. Alsina, I. Haro, R. Galantai, and F. Reig. 1998. "Synthesis and Physicochemical Characterization of Cyclic Laminin Related Peptides." <i>Langmuir</i> . Vol. 14, No. 13, pp. 3625-3630.	<input type="checkbox"/>
	7	Yagi, Nobuhiro, Yoshikatsu Ogawa, Masato Kodaka, Tomoko Okada, Takenori Tomohiro, Takeo Konakahara, and Hiroaki Okuno. 1999. "A Surface-Modified Functional Liposome Capable of Binding to Cell Membranes." <i>Chem. Commun.</i> Pp. 1687-1688.	<input type="checkbox"/>
DL	8	Luo, Yi and Glenn D. Prestwich. 2001. "Novel Biomaterials for Drug Delivery." <i>Expert Opin. Ther. Patents</i> . Vol. 11, No. 9, pp. 1395-1410.	<input type="checkbox"/>
	9	Marchi-Artzner, Valerie, Barbara Lorz, Ulrike Hellerer, Martin Kantelehner, Horst Kessler, and Erich Sackmann. 2001. "Selective Adhesion of Endothelial Cells to Artificial Membranes with a Synthetic RGD-Lipopeptide." <i>Chem. Eur. J.</i> Vol. 7, No. 5, pp. 1095-1101.	<input type="checkbox"/>
	10	Blight, Andrew R. November 2002. "Miracles and Molecules—Progress in Spinal Cord Repair." <i>Nature Neuroscience Supplement</i> . Vol. 5, pp. 1051-1054.	<input type="checkbox"/>
	11	Rodger, Alison, Jascindra Rajendra, Rachel Marrington, Malin Ardhammar, Bengt Norden, Jonathan D. Hirst, Andrew T. B. Gilbert, Timothy R. Dafforn, David J. Halsall, Cheryl A. Woolhead, Colin Robinson, Teresa J. T. Pinheiro, Jurate Kazlauskaitė, Mark Seymour, Niuvis Perez, and Michael J. Hannon. 2002. "Flow Oriented Linear Dichroism to Probe Protein Orientation in Membrane Environments." <i>Phys. Chem. Chem. Phys.</i> Vol. 4, pp. 4051-4057.	<input type="checkbox"/>
	12	Silva, G. A., K. L. Kehl, K. L. Niece, and S. I. Stupp. May 4, 2003. "Nanoengineered Peptide Amphiphile Network for Photoreceptor Replacement in Degenerative Retinal Disorders." <i>Investigative Ophthalmology &amp; Visual Science</i> . Abstract No. 492 from Annual Meeting of the Association for Research in Vision and Ophthalmology.	<input type="checkbox"/>
	13	Brandenburg, Klaus, Frauke Wagner, Mareike Muller, Holger Heine, Jorg Andra, Michel H. J. Koch, Ulrich Zahringer, and Ulrich Seydel. 2003. "Physicochemical Characterization and Biological Activity of a Glycoglycerolipid from <i>Mycoplasma fermentans</i> ." <i>Eur. J. Biochem.</i> Vol. 270, pp. 3271-3279.	<input type="checkbox"/>
DL	14	Czeisler, C., V. M. Tysseling-Mattiace, G. A. Silva, S. I. Stupp, and J. A. Kessler. 2003. "Behavioral Improvement and Increased Survival Rate after Treatment with a Self Assembling Gel in a Rat Model of Spinal Cord Injury." 2003 Abstract Viewer/Itinerary Planner. Program No. 245.22. Washington, DC: Society for Neuroscience. Printed February 5, 2007. Page 1. <a href="http://sfn.scholarone.com/itin2003/main.html?new_page_id=126&amp;abstract_id=1554...">http://sfn.scholarone.com/itin2003/main.html?new_page_id=126&amp;abstract_id=1554...</a>	<input type="checkbox"/>

D. Lukton 5/11/07

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**  
( Not for submission under 37 CFR 1.99)

Application Number	10777030
Filing Date	2004-02-11
First Named Inventor	Samuel I. STUPP et al.
Art Unit	1654
Examiner Name	David Lukton
Attorney Docket Number	NANO 110 US3 (NU 22109/23)

	15	Schmidt, Christine E. and Jennie Baier Leach. 2003. "Neural Tissue Engineering: Strategies for Repair and Regeneration." Annu. Rev. Biomed. Eng. Vol. 5, pp. 293-347.	<input type="checkbox"/>
	16	t' Hart, Bert A. and Sandra Amor. 2003. "The Use of Animal Models to Investigate the Pathogenesis of Neuroinflammatory Disorders of the Central Nervous System." Current Opinion in Neurology. Vol. 16, pp. 375-383.	<input type="checkbox"/>
	17	Benlash, Elia, Jeffery D. Hartgerink, Hannah Storrie, John C. Stendahl, and Samuel I. Stupp. 2005. "Self-Assembling Peptide Amphiphile Nanofiber Matrices for Cell Entrapment." Acta Biomaterialia. Vol. 1, pp. 387-397.	<input type="checkbox"/>
	18	Hoke, Ahmet. August 2006. "Mechanisms of Disease: What Factors Limit the Success of Peripheral Nerve Regeneration in Humans?" Nature Clinical Practice Neurology. Vol. 2, No. 8, pp. 448-454.	<input type="checkbox"/>
	19	Kokkoll, Efrosini, Anastasia Mardilovich, Alison Wedekind, Emilie L. Rexeisen, Ashish Garg, and Jennifer A. Craig. 2006. "Self-Assembly and Applications of Biomimetic and Bioactive Peptide-Amphiphiles." Soft Matter. Vol. 2, pp. 1015-1024.	<input type="checkbox"/>
	20	The LabRat.com. 2007, updated. Hank's Buffered Salt Solution (HBSS) Recipe. <a href="http://www.thelabrat.com/protocolsHanks.shtml">http://www.thelabrat.com/protocolsHanks.shtml</a> . Printed January 19, 2007. Pages 1-2.	<input type="checkbox"/>

If you wish to add additional non-patent literature document citation information please click the Add button

**EXAMINER SIGNATURE**

Examiner Signature	Date Considered
--------------------	-----------------

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through a citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> See Kind Codes of USPTO Patent Documents at [www.USPTO.GOV](http://www.USPTO.GOV) or MPEP 901.04. <sup>2</sup> Enter office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>3</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>4</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>5</sup> Applicant is to place a check mark here if English language translation is attached.

*David Lukton 5-11-07*

Substitute for form 1449A/B/PTO  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (Use as many sheets as necessary)				<b>Complete if Known</b>	
				Application Number	10/777,030
				Filing Date	February 11, 2004
				First Named Inventor	Samuel I. STUPP et al.
				Art Unit	1654
				Examiner Name	David Lukton
Sheet	1	of	21	Attorney Docket Number	NANO 110 US3 (NU 22109/23005)

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
DL	A1	4554101	11-19-1985	Hopp	
	A2	4930077	05-29-1990	Fan	
	A3	5208111	05-04-1993	Decher et al.	
	A4	5670483	09-23-1997	Zhang et al.	
	A5	5843780	12-01-1998	Thomson	
	A6	5955343	09-21-1999	Holmes et al.	
	A7	5993541	11-30-1999	Litvin et al.	
	A8	6085206	07-04-2000	Domini et al.	
	A9	6096863	08-01-2000	Fields et al.	
	A10	6181909 B1	01-30-2001	Burstein et al.	
	A11	6201065 B1	03-13-2001	Pathak et al.	
	A12	6269368 B1	07-31-2001	Diamond	
	A13	6473730 B1	10-29-2002	McKeown et al.	
	A14	6548630 B1	04-15-2003	Zhang et al.	
	A15	6562619 B1	05-13-2003	Gearhart et al.	
	A16	6800481 B1	10-05-2004	Holmes et al.	
	A17	6890654 B1	05-10-2005	Stupp et al.	
	A18	20020007217 A1	01-17-2002	Jacob et al.	
	A19	20020046018 A1	04-18-2002	Marcu et al.	
	A20	20020142277 A1	10-03-2002	Burstein et al.	
	A21	20020160471 A1	10-31-2002	Kisiday et al.	
	A22	20030059906 A1	03-27-2003	Hubbell et al.	
	A23	20030176335 A1	09-18-2003	Zhang et al.	
	A24	20040022718 A1	02-05-2004	Stupp et al.	
	A25	20040258726 A1	12-23-2004	Stupp et al.	
	A26	20050208589 A1	09-22-2005	Stupp et al.	
	A27	20050209145 A1	09-22-2005	Stupp et al.	
	A28	20050272662 A1	12-08-2005	Stupp et al.	
	A29	20060149036 A1	07-06-2006	Stupp et al.	
	A30	11/337,316	01-23-2006	Stupp et al.	

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known)				
X	B1	JP 03099096 A	04-24-1991	Shimizu et al.		
X	B2	WO 97/14713 A1	04-24-1997	Perrier et al.		
X	B3	WO 97/20639 A1	06-12-1997	Amebrant et al.		
X	B4	WO 98/07752 A1	02-26-1998	Fields et al.		
X	B5	WO 00/13716 A2	03-16-2000	Jennings et al.		
X	B6	WO 00/64481 A1	11-02-2000	Sakiyama et al.		
X	B7	WO 00/44808 A1	08-03-2000	Elbert et al.		
X	B8	WO 00/52145 A2	09-08-2000	Robl et al.		
X	B9	WO 01/00650 A1	01-04-2001	Chapman et al.		
X	B10	WO 02/062969 A2	08-15-2002	Semino et al.		

Examiner Signature	David Lukton	Date Considered	5-11-07
-----------------------	--------------	--------------------	---------

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/B/PTO  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (Use as many sheets as necessary)				<b>Complete if Known</b>	
				Application Number	10/777,030
				Filing Date	February 11, 2004
				First Named Inventor	Samuel I. STUPP et al.
				Art Unit	1654
				Examiner Name	David Lukton
Sheet	2	of	21	Attorney Docket Number	NANO 110 US3 (NU 22109/23005)

X	B11	WO 03/040996 A2	05-15-2003	Fishman et al.		
X	B12	WO 03/054146 A2	07-03-2003	Stupp et al.		
X	B13	WO 03/070749 A2	08-28-2003	Stupp et al.		
X	B14	WO 03/084080 A2	10-16-2003	Stupp et al.		
X	B15	WO 03/090255 A2	10-30-2003	Stupp et al.		
X	B16	WO 2004/003561 A1	01-08-2004	Stupp et al.		
X	B17	WO 2004/018628 A2	03-04-2004	Stupp et al.		
X	B18	WO 2004/024778 A2	03-25-2004	Stupp et al.		
X	B19	WO 2004/046467 A2	06-03-2004	Stupp et al.		
X	B20	WO 2004/072404 A2	08-26-2004	Stupp et al.		
X	B21	WO 2004/106360 A2	12-09-2004	Stupp et al.		
X	B22	WO 2005/003292 A2	01-13-2005	Stupp et al.		
X	B23	WO 2005/056039 A1	06-23-2005	Stupp et al.		
X	B24	WO 2005/056376 A2	06-23-2005	Stupp et al.		
X	B25	WO 2006/000014 A2	09-14-2006	Stupp et al.		

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. \* CITE NO.: Those application(s) which are marked with an single asterisk (\*) next to the Cite No. are not supplied (under 37 CFR 1.98(a)(2)(iii)) because that application was filed after June 30, 2003 or is available in the IFW. \* Applicant's unique citation designation number (optional). \* See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. \* Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). \* For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. \* Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. \* Applicant is to place a check mark here if English language Translation is attached.

NON PATENT LITERATURE DOCUMENTS					
Examiner Initials	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.			T <sup>2</sup>
DL	C1	Brown, Walter E. December 15, 1962. "Octacalcium Phosphate and Hydroxyapatite." <i>Nature</i> . Vol. 196, pp. 1048-1050.			
	C2	Liang, W. Y. and A. D. Yoffe. January 8, 1968. "Transmission Spectra of ZnO Single Crystals." <i>Physical Review Letters</i> . Vol. 20, No. 2, pp. 59-62.			
	C3	Greenfield, Norma and Gerald D. Fasman. October 1969. "Computed Circular Dichroism Spectra for the Evaluation of Protein Conformation." <i>Biochemistry</i> . Vol. 8, No. 10, pp. 4108-4116.			
	C4	Hantke, Klaus and Volkmar Braun. 1973. "Covalent Binding of Lipid to Protein: Diglyceride and Amide-Linked Fatty Acid at the N-Terminal End of the Murein-Lipoprotein of the <i>Escherichia coli</i> Outer Membrane." <i>Eur. J. Biochem.</i> Vol. 34, No. 2, pp. 284-296.			
	C5	Balcerski, James S., E. S. Pysh, G. M. Bonora, and C. Toniolo. June 9, 1976. "Vacuum Ultraviolet Circular Dichroism of $\beta$ -Forming Alkyl Oligopeptides." <i>Journal of the American Chemical Society</i> . Vol. 98, No. 12, pp. 3470-3473.			
	C6	Jacobson, Bruce S. and Daniel Branton. January 21, 1977. "Plasma Membrane: Rapid Isolation and Exposure of the Cytoplasmic Surface by Use of Positively Charged Beads." <i>Science</i> . Vol. 195, No. 4275, pp. 302-304.			
	C7	Biesecker, G., J. Ieuan Harris, J. C. Thierry, J. E. Walker, and A. J. Wonacott. March 24, 1977. <i>Nature</i> . Vol. 266, pp. 328-333.			
	C8	Kelly, Margaret M., E. S. Pysh, G. M. Bonora, and C. Toniolo. May 11, 1977. "Vacuum Ultraviolet Circular Dichroism of Protected Homooligomers Derived from L-Leucine." <i>Journal of the American Chemical Society</i> . Vol. 99, No. 10, pp. 3264-3266.			
DL	C9	Blumenthal, N. C., A. S. Posner, L. D. Silverman, and L. C. Rosenberg. 1979. "Effect of Proteoglycans on in Vitro Hydroxyapatite Formation." <i>Calcified Tissue International</i> . Vol. 27, No. 1, pp. 75-82.			
	C10	Richardson, P. M., U. M. McGuinness, and A. J. Aguayo. March 20, 1980. "Axons from CNS			

Examiner Signature	David Lukton	Date Considered	5-11-07
--------------------	--------------	-----------------	---------

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/B/PTO		<b>Complete if Known</b>			
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (Use as many sheets as necessary)		Application Number	10/777,030		
		Filing Date	February 11, 2004		
		First Named Inventor	Samuel I. STUPP et al.		
		Art Unit	1654		
		Examiner Name	David Lukton		
Sheet	3	of	21	Attorney Docket Number	NANO 110 US3 (NU 22109/23005)

		Neurones Regenerate into PNS Grafts." <i>Nature</i> . Vol. 284, pp. 264-265.	
DL	C11	Lim, Franklin and Anthony M. Sun. November 21, 1980. "Microencapsulated Islets as Bioartificial Endocrine Pancreas." <i>Science</i> . Vol. 210, No. 4472, pp. 908-910.	
	C12	Jain, Rakesh K., Chhitar M. Gupta, and Nitya Anand. 1981. "Synthesis of Peptidylglycophospholipids, Novel Derivatives of Muramyl-Dipeptide." <i>Tetrahedron Letters</i> . Vol. 22, No. 24, pp. 2317-2320.	
	C13	Sarin, Virender K., Stephen B. H. Kent, James P. Tam, and R. B. Merrifield. 1981. "Quantitative Monitoring of Solid-Phase Peptide Synthesis by the Ninhydrin Reaction." <i>Analytical Biochemistry</i> . Vol. 117, pp. 147-157.	
	C14	Yannas, I. V., J. F. Burke, D. P. Orgill, E. M. Skrabut. January 8, 1982. "Wound Tissue Can Utilize a Polymeric Template to Synthesize a Functional Extension of Skin." <i>Science</i> . Vol. 215, No. 4529, pp. 174-176.	
	C15	Montesano, R., L. Orci, and P. Vassalli. November 1983. "In Vitro Rapid Organization of Endothelial Cells into Capillary-like Networks Is Promoted by Collagen Matrices." <i>The Journal of Cell Biology</i> . Vol. 97, pp. 1648-1652.	
	C16	Pierschbacher, Michael D. and Erkki Ruoslahti. May 3, 1984. "Cell Attachment Activity of Fibronectin Can Be Duplicated by Small Synthetic Fragments of the Molecule." <i>Nature</i> . Vol. 309, pp. 30-33.	
	C17	Landis, W. J. and J. R. Martin. April-June 1984. "X-Ray Photoelectron Spectroscopy Applied to Gold-Decorated Mineral Standards of Biological Interest." <i>J. Vac. Sci. Technol.</i> Vol. A 2, No. 2, pp. 1108-1111.	
	C18	Thompson, Nancy L., Adrienne A. Brian, and Harden M. McConnell. 1984. "Covalent Linkage of a Synthetic Peptide to a Fluorescent Phospholipid and Its Incorporation into Supported Phospholipid Monolayers." <i>Biochimica et Biophysica Acta</i> . Vol. 772, pp. 10-19.	
	C19	Yamada, Kimiho, Hirotaka Ihara, Toshio Ide, Takanori Fukumoto, and Chuichi Hirayama. 1984. "Formation of Helical Super Structure from Single-Walled Bilayers by Amphiphiles with Oligo-L-Glutamic Acid-Head Group." <i>Chemistry Letters</i> . No. 10, pp. 1713-1716.	
DL	C20	Addadi, L. and S. Weiner. June 15, 1985. "Interactions Between Acidic Proteins and Crystals: Stereochemical Requirements in Biomineralization." <i>Proceedings of the National Academy of Sciences of the United States of America</i> . Vol. 82, No. 12, pp. 4110-4114.	
	C21	"Public Health Service Policy on Humane Care and Use of Laboratory Animals." September 1986. Office for Protection from Research Risks (OPRR), National Institutes of Health.	
	C22	Weiner, Stephen and Wolfie Traub. October 1986. "Organization of Hydroxyapatite Crystals Within Collagen Fibrils." <i>FEBS Letters</i> . Vol. 206, No. 2, pp. 262-266.	
	C23	Mann, Stephen, John P. Hannington, and R. J. P. Williams. December 11, 1986. "Phospholipid Vesicles as a Model System for Biomineralization." <i>Nature</i> . Vol. 324, pp. 565-567.	
	C24	Krimm, Samuel and Jagdeesh Bandekar. 1986. "Vibrational Spectroscopy and Conformation of Peptides, Polypeptides, and Proteins." <i>Advances in Protein Chemistry</i> . Vol. 38, pp. 181-364.	
	C25	de Groot, K., R. Geesink, C. P. A. T. Klein, and P. Serekian. December 1987. "Plasma Sprayed Coatings of Hydroxylapatite." <i>Journal of Biomedical Materials Research</i> . Vol. 21, No. 12, pp. 1375-1381.	
	C26	Bresnahan, J. C., M. S. Beattie, F. D. Todd III, and D. H. Noyes. 1987. "A Behavioral and Anatomical Analysis of Spinal Cord Injury Produced by a Feedback-Controlled Impaction Device." <i>Experimental Neurology</i> . Vol. 95, pp. 548-570.	
	C27	Moscatelli, David. 1987. "High and Low Affinity Binding Sites for Basic Fibroblast Growth Factor on Cultured Cells: Absence of a Role for Low Affinity Binding in the Stimulation of Plasminogen Activator Production by Bovine Capillary Endothelial Cells." <i>Journal of Cellular Physiology</i> . Vol. 131, pp. 123-130.	
DL	C28	Lambert, Joseph B., Herbert F. Shurvell, David A. Lightner, and R. Graham Cooks. 1987. "Group Frequencies: Infrared and Raman." <i>Introduction to Organic Spectroscopy</i> . New York: Macmillan Publishing Company. Pp. 169-182.	
DL	C29	Cook, Stephen D., Kevin A. Thomas, John F. Kay, and Michael Jarcho. July 1988. "Hydroxyapatite-	

Examiner Signature	Date Considered
--------------------	-----------------

David Lukton

5-11-07

Substitute for form 1449A/B/PTO		<b>Complete if Known</b>			
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (Use as many sheets as necessary)		Application Number	10/777,030		
		Filing Date	February 11, 2004		
		First Named Inventor	Samuel I. STUPP et al.		
		Art Unit	1654		
		Examiner Name	David Lukton		
Sheet	4	of	21	Attorney Docket Number	NANO 110 US3 (NU 22109/23005)

		Coated Titanium for Orthopedic Implant Applications." <i>Clinical Orthopaedics and Related Research</i> . No. 232, pp. 225-243.	
DL	C30	Saksela, Olli, David Moscatelli, Andreas Sommer, and Daniel B. Rifkin. August 1988. "Endothelial Cell-Derived Heparan Sulfate Binds Basic Fibroblast Growth Factor and Protects It from Proteolytic Degradation." <i>The Journal of Cell Biology</i> . Vol. 107, pp. 743-751.	
	C31	Cardin, Alan D. and H. J. R. Weintraub. January/February 1989. "Molecular Modeling of Protein-Glycosaminoglycan Interactions." <i>Arteriosclerosis</i> . Vol. 9, No. 1, pp. 21-32.	
	C32	Oonishi, H., M. Yamamoto, H. Ishimaru, E. Tsuji, S. Kuskitani, M. Aono, and Y. Ukon. March 1989. "The Effect of Hydroxyapatite Coating on Bone Growth into Porous Titanium Alloy Implants." <i>The Journal of Bone and Joint Surgery</i> . Vol. 71-B, No. 2, pp. 213-216.	
	C33	Friedmann, Theodore. June 16, 1989. "Progress Toward Human Gene Therapy." <i>Science</i> . Vol. 244, No. 4910, pp. 1275-1281.	
	C34	Traub, Wolfie, Talmon Arad, and Stephen Weiner. December 15, 1989. "Three-Dimensional Ordered Distribution of Crystals in Turkey Tendon Collagen Fibers." <i>Proceedings of the National Academy of Sciences of the United States of America</i> . Vol. 86, No. 24, pp. 9822-9826.	
	C35	Knorr, Reinhard, Arnold Trzeciak, Willi Bannwarth, and Dieter Gillesen. 1989. "New Coupling Reagents in Peptide Chemistry." <i>Tetrahedron Letters</i> . Vol. 30, No. 15, pp. 1927-1930.	
	C36	Sambrook, Joseph, Edward F. Fritsch, and Thomas Maniatis. 1989. "Genes Encoding Selectable Markers." <i>Molecular Cloning: A Laboratory Manual</i> . 2 <sup>nd</sup> ed. New York: Cold Spring Harbor Laboratory Press. Pp. 16.9-16.15.	
	C37	Veis, A. 1989. "Biochemical Studies of Vertebrate Tooth Mineralization." <i>Biomaterialization</i> . S. Mann, J. Webb, and R. J. P. Williams, editors. Weinheim, Federal Republic of Germany: VCH Verlagsgesellschaft and New York: VCH Publishers. Pp. 189-222.	
DL	C38	Schnell, Lisa and Martin E. Schwab. January 18, 1990. "Axonal Regeneration in the Rat Spinal Cord Produced by an Antibody Against Myelin-Associated Neurite Growth Inhibitors." <i>Nature</i> . Vol. 343, pp. 269-272.	
	C39	Ahn, Sang Tae and Thomas A. Mustoe. January 1990. "Effects of Ischemia on Ulcer Wound Healing: A New Model in the Rabbit Ear." <i>Annals of Plastic Surgery</i> . Vol. 24, No. 1, pp. 17-23.	
	C40	Van de Pol, Frans C. M. December 1990. "Thin-Film ZnO—Properties and Applications." <i>Ceramic Bulletin</i> . Vol. 69, No. 12, pp. 1959-1965.	
	C41	Addadi, L., A. Berman, J. Moradian-Oldak, and S. Weiner. December 28, 1990. "Tuning of Crystal Nucleation and Growth by Proteins: Molecular Interactions at Solid-Liquid Interfaces in Biomaterialization." <i>Croatia Chemica Acta</i> . Vol. 63, No. 3, pp. 539-544.	
	C42	Sukenik, Chaim N., Natarajan Balachander, Lloyd A. Culp, Kristine Lewandowska, and Katherine Merritt. 1990. "Modulation of Cell Adhesion by Modification of Titanium Surfaces with Covalently Attached Self-Assembled Monolayers." <i>Journal of Biomedical Materials Research</i> . Vol. 24, pp. 1307-1323.	
	C43	Fields, C. G., D. H. Lloyd, R. L. Macdonald, K. M. Otteson, and R. L. Noble. March/April 1991. "HBTU Activation for Automated Fmoc Solid-Phase Peptide Synthesis." <i>Peptide Research</i> . Vol. 4, No. 2, pp. 95-101.	
	C44	Murata, Masayuki, Satoshi Kagiwada, Sho Takahashi, and Shun-ichi Ohnishi. August 5, 1991. "Membrane Fusion Induced by Mutual Interaction of the Two Charge-Reversed Amphiphilic Peptides at Neutral pH." <i>The Journal of Biological Chemistry</i> . Vol. 266, No. 22, pp. 14353-14358.	
	C45	Harris, Robin, Editor. 1991. <i>Electron Microscopy in Biology: A Practical Approach</i> . New York: Oxford University Press.	
	C46	Jackson, David Y., David S. King, Jean Chmielewski, Sunil Singh, and Peter G. Schultz. 1991. "General Approach to the Synthesis of Short $\alpha$ -Helical Peptides." <i>Journal of the American Chemical Society</i> . Vol. 113, pp. 9391-9392.	
DL	C47	Polverini, Peter J., Noel P. Bouck, and Farzan Rastinejad. 1991. "Assay and Purification of Naturally Occurring Inhibitor of Angiogenesis." <i>Methods in Enzymology</i> . Vol. 198, pp. 440-450.	
	C48	Weiner, Stephen and Wolfie Traub. February 1992. "Bone Structure: From Angstroms to Microns."	

Examiner Signature	Date Considered
--------------------	-----------------

David Lukton

5-11-07



Substitute for form 1449A/B/PTO		<b>Complete if Known</b>			
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (Use as many sheets as necessary)		Application Number	10/777,030		
		Filing Date	February 11, 2004		
		First Named Inventor	Samuel I. STUPP et al.		
		Art Unit	1654		
		Examiner Name	David Lukton		
Sheet	5	of	21	Attorney Docket Number	NANO 110 US3 (NU 22109/23005)

		<i>The FASEB Journal</i> . Vol. 6, pp. 879-885.	
DL	C49	Addadi, Lia and Stephen Weiner. 1992. "Control and Design Principles in Biological Mineralization." <i>Angew. Chem. Int. Ed. Engl.</i> Vol. 31, pp. 153-169.	
	C50	Beresford, J. N., J. H. Bennett, C. Devlin, P. S. Leboy, and M. E. Owen. 1992. "Evidence for an Inverse Relationship Between the Differentiation of Adipocytic and Osteogenic Cells in Rat Marrow Stromal Cell Cultures." <i>Journal of Cell Science</i> . Vol. 102, pp. 341-351.	
	C51	Cook, Stephen D., Kevin A. Thomas, Jeanette E. Dalton, Todd K. Volkman, Thomas S. Whitecloud III, and John F. Kay. 1992. "Hydroxylapatite Coating of Porous Implants Improves Bone Ingrowth and Interface Attachment Strength." <i>Journal of Biomedical Materials Research</i> . Vol. 26, pp. 989-1001.	
	C52	Geahlen, Robert L., G. Marc Loudon, Lisa A. Paige, and David Lloyd. 1992. "A General Method for Preparation of Peptides Biotinylated at the Carboxy Terminus." <i>Analytical Biochemistry</i> . Vol. 202, pp. 68-70.	
	C53	Ghadiri, M. Reza, Christopher Soares, and Chong Choi. 1992. "Design of an Artificial Four-Helix Bundle Metalloprotein via a Novel Ruthenium(II)-Assisted Self-Assembly Process." <i>Journal of the American Chemical Society</i> . Vol. 114, No. 10, pp. 4000-4002.	
	C54	Kunitake, Toyoki. 1992. "Synthetic Bilayer Membranes: Molecular Design, Self-Organization, and Application." <i>Angew. Chem. Int. Ed. Engl.</i> Vol. 31, pp. 709-726.	
	C55	Stupp, Samuel I. and Glenn W. Ciegler. 1992. "Organoapatites: Materials for Artificial Bone. I. Synthesis and Microstructure." <i>Journal of Biomedical Materials Research</i> . Vol. 26, pp. 169-183.	
	C56	Surewicz, Witold K., Henry H. Mantsch, and Dennis Chapman. January 19, 1993. "Determination of Protein Secondary Structure by Fourier Transform Infrared Spectroscopy: A Critical Assessment." <i>Biochemistry</i> . Vol. 32, No. 2, pp. 389-394.	
DL	C57	Zhang, Shuguang, Todd Holmes, Curtis Lockshin, and Alexander Rich. April 15, 1993. "Spontaneous Assembly of a Self-Complementary Oligopeptide to Form a Stable Macroscopic Membrane." <i>Proceedings of the National Academy of Sciences of the United States of America</i> . Vol. 90, No. 8, pp. 3334-3338.	
	C58	Langer, Robert and Joseph P. Vacanti. May 14, 1993. "Tissue Engineering." <i>Science</i> . Vol. 260, No. 5110, pp. 920-926.	
	C59	Mulligan, Richard C. May 14, 1993. "The Basic Science of Gene Therapy." <i>Science</i> . Vol. 260, No. 5110, pp. 926-932.	
	C60	Massas, R., S. Pitaru, and M. M. Weinreb. June 1993. "The Effects of Titanium and Hydroxyapatite on Osteoblastic Expression and Proliferation in Rat Parietal Bone Cultures." <i>Journal of Dental Research</i> . Vol. 72, No. 6, pp. 1005-1008.	
	C61	Archibald, Douglas D. and Stephen Mann. July 29, 1993. "Template Mineralization of Self-Assembled Anisotropic Lipid Microstructures." <i>Nature</i> . Vol. 364, pp. 430-433.	
	C62	Atala, Anthony, Linda G. Cima, Woosob Kim, Keith T. Paige, Joseph P. Vacanti, Alan B. Retik, and Charles A. Vacanti. August 1993. "Injectable Alginate Seeded with Chondrocytes as a Potential Treatment for Vesicoureteral Reflux." <i>The Journal of Urology</i> . Vol. 150, No. 2, pp. 745-747.	
	C63	Ross-Murphy, S. B. and K. P. Shatwell. May-August 1993. "Polysaccharide Strong and Weak Gels." <i>Biorheology</i> . Vol. 30, Nos. 3 & 4, pp. 217-227.	
	C64	Margalit, Hanah, Nurit Fischer, and Shmuel A. Ben-Sasson. September 15, 1993. "Comparative Analysis of Structurally Defined Heparin Binding Sequences Reveals a Distinct Spatial Distribution of Basic Residues." <i>The Journal of Biological Chemistry</i> . Vol. 268, No. 26, pp. 19228-19231.	
	C65	Fowler, Bruce O., Milenko Marković, and Walter E. Brown. 1993. "Octacalcium Phosphate. 3. Infrared and Raman Vibrational Spectra." <i>Chem. Mater.</i> Vol. 5, No. 10, pp. 1417-1423.	
	C66	Fuhrhop, Jürgen-Hinrich, Dragan Spiroski, and Christoph Boettcher. 1993. "Molecular Monolayer Rods and Tubules Made of $\alpha$ -(L-Lysine), $\omega$ -(Amino) Bolaamphiphiles." <i>Journal of the American Chemical Society</i> . Vol. 115, No. 4, pp. 1600-1601.	
DL	C67	Graham, Stephan and Paul W. Brown. 1993. "The Low Temperature Formation of Octacalcium Phosphate." <i>Journal of Crystal Growth</i> . Vol. 132, pp. 215-225.	
	C68	Shimizu, Toshimi and Masakatsu Hato. 1993. "Self-Assembling Properties of Synthetic Peptidic	

Examiner Signature	Date Considered
--------------------	-----------------

David Lukton

5-11-07

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/B/PTO  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (Use as many sheets as necessary)			<b>Complete if Known</b>		
			Application Number	10/777,030	
			Filing Date	February 11, 2004	
			First Named Inventor	Samuel I. STUPP et al.	
			Art Unit	1654	
			Examiner Name	David Lukton	
Sheet	6	of	21	Attorney Docket Number	NANO 110 US3 (NU 22109/23005)

		Lipids." <i>Biochimica et Biophysica Acta</i> . Vol. 1147, pp. 50-58.	
DL	C69	Stupp, Samuel I., Jacqueline A. Hanson, Jo Ann Eurell, Glenn W. Ciegler, and Ann Johnson. 1993. "Organoapatites: Materials for Artificial Bone. III. Biological Testing." <i>Journal of Biomedical Materials Research</i> . Vol. 27, pp. 301-311.	
	C70	Stupp, Samuel I., George C. Mejicano, and Jacqueline A. Hanson. 1993. "Organoapatites: Materials for Artificial Bone. II. Hardening Reactions and Properties." <i>Journal of Biomedical Materials Research</i> . Vol. 27, pp. 289-299.	
	C71	Wald, Heidi L., Georgios Sarakinos, Michelle D. Lyman, Antonios G. Mikos, Joseph P. Vacanti, and Robert Langer. 1993. "Cell Seeding in Porous Transplantation Devices." <i>Biomaterials</i> . Vol. 14, No. 4, pp. 270-278.	
	C72	Walsh, Dominic, Joanne L. Kingston, Brigid R. Heywood, and Stephen Mann. 1993. "Influence of Monosaccharides and Related Molecules on the Morphology of Hydroxyapatite." <i>Journal of Crystal Growth</i> . Vol. 133, pp. 1-12.	
	C73	Wang, B. C., T. M. Lee, E. Chang, and C. Y. Yang. 1993. "The Shear Strength and the Failure Mode of Plasma-Sprayed Hydroxyapatite Coating to Bone: The Effect of Coating Thickness." <i>Journal of Biomedical Materials Research</i> . Vol. 27, pp. 1315-1327.	
	C74	San Antonio, James D., Arthur D. Lander, Morris J. Karnovsky, and Henry S. Slayter. June 1994. "Mapping the Heparin-Binding Sites on Type I Collagen Monomers and Fibrils." <i>The Journal of Cell Biology</i> . Vol. 125, No. 5, pp. 1179-1188.	
	C75	Ban, S., S. Maruno, H. Iwata, and H. Itoh. 1994. "Calcium Phosphate Precipitation on the Surface of HA-G-Ti Composite Under Physiologic Conditions." <i>Journal of Biomedical Materials Research</i> . Vol. 28, pp. 65-71.	
DL	C76	de Bruijn, J. D., Y. P. Bovell, and C. A. van Blitterswijk. 1994. "Structural Arrangements at the Interface Between Plasma Sprayed Calcium Phosphates and Bone." <i>Biomaterials</i> . Vol. 15, No. 7, pp. 543-550.	
	C77	Hunter, Graeme K. and Harvey A. Goldberg. 1994. "Modulation of Crystal Formation by Bone Phosphoproteins: Role of Glutamic Acid-Rich Sequences in the Nucleation of Hydroxyapatite by Bone Sialoprotein." <i>Biochem. J</i> . Vol. 302, pp. 175-179.	
	C78	Klein, C. P. A. T., J. G. C. Wolke, J. M. A. de Blicke-Hogervorst, and K. de Groot. 1994. "Calcium Phosphate Plasma-Sprayed Coatings and Their Stability: An <i>in Vivo</i> Study." <i>Journal of Biomedical Materials Research</i> . Vol. 28, pp. 909-917.	
	C79	Mikos, Antonios G., Michelle D. Lyman, Lisa E. Freed, and Robert Langer. 1994. "Wetting of Poly(L-Lactic Acid) and Poly(DL-Lactic-co-glycolic Acid) Foams for Tissue Culture." <i>Biomaterials</i> . Vol. 15, No. 1, pp. 55-58.	
	C80	Bond, G. M., R. H. Richman, and W. P. McNaughton. June 1995. "Mimicry of Natural Material Designs and Processes." <i>Journal of Materials Engineering and Performance</i> . Vol. 4, No. 3, pp. 334-345.	
	C81	Hubbell, Jeffrey A. June 1995. "Biomaterials in Tissue Engineering." <i>Bio/technology</i> . Vol. 13, pp. 565-576.	
	C82	Fromm, J. R., R. E. Hileman, E. E. O. Caldwell, J. M. Weiler, and R. J. Linhardt. November 10, 1995. "Differences in the Interaction of Heparin with Arginine and Lysine and the Importance of these Basic Amino Acids in the Binding of Heparin to Acidic Fibroblast Growth Factor." <i>Archives of Biochemistry and Biophysics</i> . Vol. 323, No. 2, pp. 279-287.	
	C83	Wakitani, Shigeyuki, Tomoyuki Saito, and Arnold I. Caplan. December 1995. "Myogenic Cells Derived from Rat Bone Marrow Mesenchymal Stem Cells Exposed to 5-Azacytidine." <i>Muscle &amp; Nerve</i> . Vol. 18, pp. 1417-1426.	
	C84	Aletras, Alexios, Kleomenis Barlos, Dimitrios Gatos, Sophia Koutsogianni, and Petros Mamos. 1995. "Preparation of the Very Acid-Sensitive Fmoc-Lys(Mtt)-OH." <i>International Journal of Peptide &amp; Protein Research</i> . Vol. 45, pp. 488-496.	
DL	C85	Berndt, Peter, Gregg B. Fields, and Matthew Tirrell. 1995. "Synthetic Lipidation of Peptides and Amino Acids: Monolayer Structure and Properties." <i>Journal of the American Chemical Society</i> . Vol.	

Examiner Signature	David Lukton	Date Considered	5-11-07
--------------------	--------------	-----------------	---------

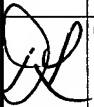


Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/B/PTO  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (Use as many sheets as necessary)		<b>Complete if Known</b>			
		Application Number	10/777,030		
		Filing Date	February 11, 2004		
		First Named Inventor	Samuel I. STUPP et al.		
		Art Unit	1654		
		Examiner Name	David Lukton		
Sheet	7	of	21	Attorney Docket Number	NANO 110 US3 (NU 22109/23005)

		117, No. 37, pp. 9515-9522.	
	C86	Gage, Fred H., Jasodhara Ray, and Lisa J. Fisher. 1995. "Isolation, Characterization, and Use of Stem Cells from the CNS." <i>Annual Review of Neuroscience</i> . Vol. 18, pp. 159-192.	
	C87	Nomizu, Motoyoshi, Benjamin S. Weeks, Christi A. Weston, Woo Hoo Kim, Hynda K. Kleinman, and Yoshihiko Yamada. 1995. "Structure-Activity Study of a Laminin $\alpha$ 1 Chain Active Peptide Segment Ile-Lys-Val-Ala-Val (IKVAV)." <i>FEBS Letters</i> . Vol. 365, pp. 227-231.	
	C88	Saito, Tomoyuki, James E. Dennis, Donald P. Lennon, Randell G. Young, and Arnold I. Caplan. 1995. "Myogenic Expression of Mesenchymal Stem Cells Within Myotubes of <i>mdx</i> Mice <i>in Vitro</i> and <i>in Vivo</i> ." <i>Tissue Engineering</i> . Vol. 1, No. 4, pp. 327-343.	
	C89	Sasanuma, Michio. 1995. "Optical Processes in ZnO." <i>J. Phys.: Condens. Matter</i> . Vol. 7, pp. 10029-10036.	
	C90	Zhang, Shuguang, Todd C. Holmes, C. Michael DiPersio, Richard O. Hynes, Xing Su, and Alexander Rich. 1995. "Self-Complementary Oligopeptide Matrices Support Mammalian Cell Attachment." <i>Biomaterials</i> . Vol. 16, No. 18, pp. 1385-1393.	
	C91	Falini, Giuseppe, Shira Albeck, Steve Weiner, and Lia Addadi. January 5, 1996. "Control of Aragonite or Calcite Polymorphism by Mollusk Shell Macromolecules." <i>Science</i> . Vol. 271, No. 5245, pp. 67-69.	
	C92	Alivisatos, A. P. February 16, 1996. "Semiconductor Clusters, Nanocrystals, and Quantum Dots." <i>Science</i> . Vol. 271, No. 5251, pp. 933-937.	
	C93	Keyt, Bruce A., Lea T. Berleau, Hung V. Nguyen, Helen Chen, Henry Heinsohn, Richard Vandlen, and Napoleone Ferrara. March 29, 1996. "The Carboxyl-terminal Domain (111-165) of Vascular Endothelial Growth Factor Is Critical for Its Mitogenic Potency." <i>The Journal of Biological Chemistry</i> . Vol. 271, No. 13, pp. 7788-7795.	
	C94	Belcher, A. M., X. H. Wu, R. J. Christensen, P. K. Hansma, G. D. Stucky, and D. E. Morse. May 2, 1996. "Control of Crystal Phase Switching and Orientation by Soluble Mollusc-Shell Proteins." <i>Nature</i> . Vol. 381, pp. 56-58.	
	C95	Hortelano, Gonzalo, Ayman Al-Hendy, Frederick A. Ofori, and Patricia L. Chang. June 15, 1996. "Delivery of Human Factor IX in Mice by Encapsulated Recombinant Myoblasts: A Novel Approach Towards Allogeneic Gene Therapy of Hemophilia B." <i>Blood</i> . Vol. 87, No. 12, pp. 5095-5103.	
	C96	Sultzbaugh, K. J. and T. J. Speaker. July-August 1996. "A Method to Attach Lectins to the Surface of Spermine Alginate Microcapsules Based on the Avidin Biotin Interaction." <i>J. Microencapsulation</i> . Vol. 13, No. 4, pp. 363-375.	
	C97	Alivisatos, A. Paul, Kai P. Johnsson, Xiaogang Peng, Troy E. Wilson, Colin J. Loweth, Marcel P. Burcher Jr., and Peter G. Schultz. August 15, 1996. "Organization of 'Nanocrystal Molecules' Using DNA." <i>Nature</i> . Vol. 382, pp. 609-611.	
	C98	George, Anne, Leslie Bannon, Boris Sabsay, Jerry W. Dillon, James Malone, Arthur Veis, Nancy A. Jenkins, Debra J. Gilbert, and Neal G. Copeland. December 20, 1996. "The Carboxyl-terminal Domain of Phosphophoryn Contains Unique Extended Triplet Amino Acid Repeat Sequences Forming Ordered Carboxyl-Phosphate Interaction Ridges That May Be Essential in the Biomineralization Process." <i>The Journal of Biological Chemistry</i> . Vol. 271, No. 51, pp. 32869-32873.	
	C99	Basso, D. Michele, Michael S. Beattie, and Jacqueline C. Bresnahan. 1996. "Graded Histological and Locomotor Outcomes after Spinal Cord Contusion Using the NYU Weight-Drop Device Versus Transection." <i>Experimental Neurology</i> . Vol. 139, pp. 244-256.	
	C100	Burkett, Sandra L. and Stephen Mann. 1996. "Spatial Organization and Patterning of Gold Nanoparticles on Self-Assembled Biolipid Tubular Templates." <i>Chem. Commun.</i> pp. 321-322.	
	C101	Hunter, Graeme K., Peter V. Hauschka, A. Robin Poole, Lawrence C. Rosenberg, and Harvey A. Goldberg. 1996. "Nucleation and Inhibition of Hydroxyapatite Formation by Mineralized Tissue Proteins." <i>Biochem. J.</i> Vol. 317, pp. 59-64.	
	C102	Karymov, Mikhail A., Karel Procházka, John M. Mendenhall, Thomas J. Martin, Petr Munk, and Stephen E. Webber. 1996. "Chemical Attachment of Polystyrene-block-poly(methacrylic acid) Micelles on a Silicon Nitride Surface." <i>Langmuir</i> . Vol. 12, No. 20, 4748-4753.	
	C103	Landis, William J., Karen J. Hodgins, James Arena, Min Ja Song, and Bruce F. McEwen. 1996.	

Examiner Signature		Date Considered	5-11-07
--------------------	--	-----------------	---------

Substitute for form 1449A/B/PTO			<b>Complete if Known</b>		
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (Use as many sheets as necessary)			Application Number	10/777,030	
			Filing Date	February 11, 2004	
			First Named Inventor	Samuel I. STUPP et al.	
			Art Unit	1654	
			Examiner Name	David Lukton	
Sheet	8	of	21	Attorney Docket Number	NANO 110 US3 (NU 22109/23005)

		"Structural Relations Between Collagen and Mineral in Bone as Determined by High Voltage Electron Microscopic Tomography." <i>Microscopy Research and Technique</i> . Vol. 33, pp. 192-202.	
	C104	Matsuzawa, Miekko, Forrest F. Weight, Richard S. Potember, and Päivi Liesi. 1996. "Directional Neurite Outgrowth and Axonal Differentiation of Embryonic Hippocampal Neurons Are Promoted by a Neurite Outgrowth Domain of the B2-Chain of Laminin." <i>Int. J. Devl. Neuroscience</i> . Vol. 14, No. 3, pp. 283-295.	
	C105	Mooney, David J., Daniel F. Baldwin, Nam P. Suh, Joseph P. Vacanti, and Robert Langer. 1996. "Novel Approach to Fabricate Porous Sponges of Poly(D,L-Lactic-co-glycolic Acid) Without the Use of Organic Solvents." <i>Biomaterials</i> . Vol. 17, No. 14, pp. 1417-1422.	
	C106	Ratner, Buddy D., Allan S. Hoffman, Frederick J. Schoen, and Jack E. Lemons, Editors. 1996. <i>Biomaterials Science: An Introduction to Materials in Medicine</i> . San Diego, CA: Academic Press.	
	C107	Ulman, Abraham. 1996. "Formation and Structure of Self-Assembled Monolayers." <i>Chemical Reviews</i> . Vol. 96, No. 4, pp. 1533-1554.	
	C108	Yu, Ying-Ching, Peter Berndt, Matthew Tirrell, and Gregg B. Fields. 1996. "Self-Assembling Amphiphiles for Construction of Protein Molecular Architecture." <i>Journal of the American Chemical Society</i> . Vol. 118, No. 50, pp. 12515-12520.	
	C109	Zarif, Leila, Ange Polidori, Bernard Pucci, Tadek Gulik-Krzywicki, André A. Pavia, and Jean G. Riess. 1996. "Effect of Chirality on the Formation of Tubules from Glycolipidic Amphiphiles." <i>Chemistry and Physics of Lipids</i> . Vol. 79, pp. 165-170.	
	C110	Aggeli, A., M. Bell, N. Boden, J. N. Keen, P. F. Knowles, T. C. B. McLeish, M. Pitkeathly, and S. E. Radford. March 20, 1997. "Responsive Gels Formed by the Spontaneous Self-Assembly of Peptides into Polymeric $\beta$ -Sheet Tapes." <i>Nature</i> . Vol. 386, pp. 259-262.	
	C111	Herr, Andrew B., David M. Ornitz, Ram Sasisekharan, Ganesh Venkataraman, and Gabriel Waksman. June 27, 1997. "Heparin-Induced Self-Association of Fibroblast Growth Factor-2." <i>The Journal of Biological Chemistry</i> . Vol. 272, No. 26, pp. 16382-16389.	
	C112	Dimmeler, Stefanie and Andreas M. Zeiher. August 1997. "Nitric Oxide and Apoptosis: Another Paradigm for the Double-Edged Role of Nitric Oxide." <i>NITRIC OXIDE: Biology and Chemistry</i> . Vol. 1, No. 4, pp. 275-281.	
	C113	Stupp, Samuel I. and Paul V. Braun. August 29, 1997. "Molecular Manipulation of Microstructures: Biomaterials, Ceramics, and Semiconductors." <i>Science</i> . Vol. 277, No. 5330, pp. 1242-1248.	
	C114	Kaufmann, P. M., S. Heimrath, B. S. Kim, and D. J. Mooney. September/October 1997. "Highly Porous Polymer Matrices as a Three-Dimensional Culture System for Hepatocytes." <i>Cell Transplantation</i> . Vol. 6, No. 5, pp. 463-468.	
	C115	Aggeli, Amalia, Mark Bell, Neville Boden, Jeff N. Keen, Tom C. B. McLeish, Irina Nyrkova, Sheena E. Radford, and Alexander Semenov. 1997. "Engineering of Peptide $\beta$ -Sheet Nanotapes." <i>J. Mater. Chem.</i> Vol. 7, No. 7, pp. 1135-1145.	
	C116	Anderson, James M. and Matthew S. Shive. 1997. "Biodegradation and Biocompatibility of PLA and PLGA Microspheres." <i>Advanced Drug Delivery Reviews</i> . Vol. 28, pp. 5-24.	
	C117	Dragnet, Kurt Ingar, Gudmund Skjåk-Bræk, Olav Smidsrød. 1997. "Alginate Based New Materials." <i>International Journal of Biological Macromolecules</i> . Vol. 21, pp. 47-55.	
	C118	El-Ghannam, Ahmed, Paul Ducheyne, and Irving M. Shapiro. 1997. "Porous Bioactive Glass and Hydroxyapatite Ceramic Affect Bone Cell Function <i>In Vitro</i> Along Different Time Lines." <i>Journal of Biomedical Materials Research</i> . Vol. 36, pp. 167-180.	
	C119	Jaiswal, Neelam, Stephen E. Haynesworth, Arnold I. Caplan, and Scott P. Bruder. 1997. "Osteogenic Differentiation of Purified, Culture-Expanded Human Mesenchymal Stem Cells <i>In Vitro</i> ." <i>Journal of Cellular Biochemistry</i> . Vol. 64, pp. 295-312.	
	C120	Nehrer, Stefan, Howard A. Breinan, Arun Ramappa, Sonya Shortkroff, Gretchen Young, Tom Minas, Clement B. Sledge, Ioannis V. Yannas, and Myron Spector. 1997. "Canine Chondrocytes Seeded in Type I and Type II Collagen Implants Investigated <i>In Vitro</i> ." <i>Journal of Biomedical Materials Research (Appl. Biomater.)</i> . Vol. 38, pp. 95-104.	
	C121	Mann, Stephen. 1997. "Biomaterialization: The Form(id)able Part of Bioinorganic Chemistry!" <i>J.</i>	

Examiner Signature	Date Considered
--------------------	-----------------

David Lukton

5-11-07

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/B/PTO  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (Use as many sheets as necessary)			<b>Complete if Known</b>		
			Application Number	10/777,030	
			Filing Date	February 11, 2004	
			First Named Inventor	Samuel I. STUPP et al.	
			Art Unit	1654	
			Examiner Name	David Lukton	
Sheet	9	of	21	Attorney Docket Number	NANO 110 US3 (NU 22109/23005)

		<i>Chem. Soc., Dalton Trans.</i> Pp. 3953-3961.	
	C122	Norby, Klas. 1997. "Angiogenesis: New Aspects Relating to Its Initiation and Control." <i>APMIS</i> . Vol. 105, pp. 417-437.	
	C123	Shimizu, Toshimi, Masaki Kogiso, and Mitsutoshi Masuda. 1997. "Noncovalent Formation of Polyglycine II-Type Structure by Hexagonal Self-Assembly of Linear Polymolecular Chains." <i>Journal of the American Chemical Society</i> . Vol. 119, No. 26, pp. 6209-6210, S2-S17.	
	C124	Smith, George P. and Valery A. Petrenko. 1997. "Phage Display." <i>Chemical Reviews</i> . Vol. 97, No. 2, pp. 391-410.	
	C125	Toyotama, Akiko, Shin-ichi Kugimiya, Masakatsu Yonese, Takatoshi Kinoshita, and Yoshiharu Tsujita. 1997. "Controllable Orientation of the Peptide-Based Surfactant at Air-Water Interface." <i>Chemistry Letters</i> . Pp. 443-444.	
	C126	Weiner, Stephen and Lia Addadi. 1997. "Design Strategies in Mineralized Biological Materials." <i>J. Mater. Chem.</i> Vol. 7, No. 5, pp. 689-702.	
	C127	Wellings, Donald A. and Eric Atherton. 1997. "Standard Fmoc Protocols." <i>Methods in Enzymology</i> . Vol. 289, pp. 44-67.	
	C128	Wen, H. B., J. G. C. Wolke, J. R. de Wijn, Q. Liu, F. Z. Cui, and K. de Groot. 1997. "Fast Precipitation of Calcium Phosphate Layers on Titanium Induced by Simple Chemical Treatments." <i>Biomaterials</i> . Vol. 18, No. 22, pp. 1471-1478.	
	C129	Yu, Ying-Ching, Teika Pakalns, Yoav Dori, James B. McCarthy, Matthew Tirrell, and Gregg B. Fields. 1997. "Construction of Biologically Active Protein Molecular Architecture Using Self-Assembling Peptide-Amphiphiles." <i>Methods in Enzymology</i> . Vol. 289, pp. 571-587.	
	C130	Zhitomirsky, I. and L. Gal-Or. 1997. "Electrophoretic Deposition of Hydroxyapatite." <i>Journal of Materials Science: Materials in Medicine</i> . Pp. 213-219.	
	C131	Veis, Arthur, Kuiru Wei, Charles Sfeir, Anne George, and James Malone. January 1998. "Properties of the (DSS) <sub>n</sub> Triplet Repeat Domain of Rat Dentin Phosphophoryn." <i>European Journal of Oral Sciences</i> . Vol. 106 (suppl. 1), pp. 234-238.	
	C132	Pincus, David W., Robert R. Goodman, Richard A. R. Fraser, Maiken Nedergaard, and Steven A. Goldman. April 1998. "Neural Stem and Progenitor Cells: A Strategy for Gene Therapy and Brain Repair." <i>Neurosurgery</i> . Vol. 42, No. 4, pp. 858-867.	
	C133	Ogiso, M., Y. Yamashita, and T. Matsumoto. June 1998. "The Process of Physical Weakening and Dissolution of the HA-Coated Implant in Bone and Soft Tissue." <i>Journal of Dental Research</i> . Vol. 77, No. 6, pp. 1426-1434.	
	C134	Petka, Wendy A., James L. Harden, Kevin P. McGrath, Denis Wirtz, and David A. Tirrell. July 17, 1998. "Reversible Hydrogels from Self-Assembling Artificial Proteins." <i>Science</i> . Vol. 281, No. 5375, pp. 389-392.	
	C135	Orgill, Dennis P., Charles Butler, John F. Regan, Mark S. Barlow, I. V. Yannas, and Carolyn C. Compton. August 1998. "Vascularized Collagen-Glycosaminoglycan Matrix Provides a Dermal Substrate and Improves Take of Cultured Epithelial Autografts." <i>Plastic and Reconstructive Surgery</i> . Vol. 102, No. 2, pp. 423-429.	
	C136	Yu, Ying-Ching, Matthew Tirrell, and Gregg B. Fields. October 7, 1998. "Minimal Lipidation Stabilizes Protein-Like Molecular Architecture." <i>Journal of the American Chemical Society</i> . Vol. 120, No. 39, pp. 9979-9987.	
	C137	Borkenhagen, M., J.-F. Cl��mence, H. Sigrist, and P. Aebischer. 1998. "Three-Dimensional Extracellular Matrix Engineering in the Nervous System." <i>Journal of Biomedical Materials Research</i> . Vol. 40, pp. 392-400.	
	C138	Brekke, John H. and Jeffrey M. Toth. 1998. "Principles of Tissue Engineering Applied to Programmable Osteogenesis." <i>Journal of Biomedical Materials Research (Appl. Biomater.)</i> . Vol. 43, pp. 380-398.	
	C139	Fields, Gregg B., Janelle L. Lauer, Yoav Dori, Pilar Forns, Ying-Ching Yu, and Matthew Tirrell. 1998. "Proteinlike Molecular Architecture: Biomaterial Applications for Inducing Cellular Receptor Binding and Signal Transduction." <i>Biopolymers (Peptide Science)</i> . Vol. 47, pp. 143-151.	

Examiner Signature		Date Considered	
--------------------	--	-----------------	--

5-11-07

Substitute for form 1449A/B/PTO			<b>Complete if Known</b>		
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (Use as many sheets as necessary)			Application Number	10/777,030	
			Filing Date	February 11, 2004	
			First Named Inventor	Samuel I. STUPP et al.	
			Art Unit	1654	
			Examiner Name	David Lukton	
Sheet	10	of	21	Attorney Docket Number	NANO 110 US3 (NU 22109/23005)

C140	Gu, Keni, Syweren R. Chang, Matt S. Slaven, Brian H. Clarkson, R. Bruce Rutherford, and Helena H. Ritchie. 1998. "Human Dentin Phosphoryl Nucleotide and Amino Acid Sequence." <i>European Journal of Oral Sciences</i> . Vol. 106, pp. 1043-1047.
C141	Hartgerink, Jeffrey D., Thomas D. Clark, and M. Reza Ghadiri. 1998. "Peptide Nanotubes and Beyond." <i>Chem. Eur. J.</i> Vol. 4, No. 8, pp. 1367-1372.
C142	Johnstone, Brian, Thomas M. Hering, Arnold I. Caplan, Victor M. Goldberg, and Jung U. Yoo. 1998. "In Vitro Chondrogenesis of Bone Marrow-Derived Mesenchymal Progenitor Cells." <i>Experimental Cell Research</i> . Vol. 238, pp. 265-272.
C143	Kawasaki, M., A. Ohtomo, I. Ohkubo, H. Koinuma, Z. K. Tang, P. Yu, G. K. L. Wong, B. P. Zhang, and Y. Segawa. 1998. "Excitonic Ultraviolet Laser Emission at Room Temperature from Naturally Made Cavity in ZnO Nanocrystal Thin Films." <i>Materials Science and Engineering</i> . Vol. B56, pp. 239-245.
C144	Kogiso, Masaki, Satomi Ohnishi, Kiyoshi Yase, Mitsutoshi Masuda, and Toshimi Shimizu. 1998. "Dicarboxylic Oligopeptide Bolaamphiphiles: Proton-Triggered Self-Assembly of Microtubes with Loose Solid Surfaces." <i>Langmuir</i> . Vol. 14, No. 18, pp. 4978-4986, S1-S7.
C145	Kogiso, Masaki, Takeshi Hanada, Kiyoshi Yase, and Toshimi Shimizu. 1998. "Intralayer Hydrogen-Bond-Directed Self-Assembly of Nano-Fibers from Dicarboxylic Valylvaline Bolaamphiphiles." <i>Chem. Comm.</i> pp. 1791-1792.
C146	Li, Panjian and Paul Ducheyne. 1998. "Quasi-Biological Apatite Film Induced by Titanium in a Simulated Body Fluid." <i>Journal of Biomedical Materials Research</i> . Vol. 41, pp. 341-348.
C147	Nanci, A., J. D. Wuest, L. Peru, P. Brunet, V. Sharma, S. Zalzal, and M. D. McKee. 1998. "Chemical Modification of Titanium Surfaces for Covalent Attachment of Biological Molecules." <i>Journal of Biomedical Materials Research</i> . Vol. 40, pp. 324-335.
C148	Tsui, Y. C., C. Doyle, and T. W. Clyne. 1998. "Plasma Sprayed Hydroxyapatite Coatings on Titanium Substrates Part 2: Optimisation of Coating Properties." <i>Biomaterials</i> . Vol. 19, pp. 2031-2043.
C149	Weiner, S. and H. D. Wagner. 1998. "The Material Bone: Structure-Mechanical Function Relations." <i>Annu. Rev. Mater. Sci.</i> Vol. 28, pp. 271-298.
C150	Wen, H. B., J. R. de Wijn, F. Z. Cui, and K. de Groot. 1998. "Preparation of Calcium Phosphate Coatings on Titanium Implant Materials by Simple Chemistry." <i>Journal of Biomedical Materials Research</i> . Vol. 41, pp. 227-236.
C151	Wheeler, Donna L., David L. Chamberland, John M. Schmitt, David C. Buck, John H. Brekke, Jeffrey O. Hollinger, S.-P. Joh, and K.-W. Suh. 1998. "Radiomorphometry and Biomechanical Assessment of Recombinant Human Bone Morphogenetic Protein 2 and Polymer in Rabbit Radius Osteotomy Model." <i>Journal of Biomedical Materials Research (Appl. Biomater.)</i> . Vol. 43, pp. 365-373.
C152	Wolke, J. G. C., K. de Groot, and J. A. Jansen. 1998. "In Vivo Dissolution Behavior of Various RF Magnetron Sputtered Ca-P Coatings." <i>Journal of Biomedical Materials Research</i> . Vol. 39, pp. 524-530.
C153	Xiao, Shou-Jun, Marcus Textor, and Nicholas D. Spencer. 1998. "Covalent Attachment of Cell-Adhesive, (Arg-Gly-Asp)-Containing Peptides to Titanium Surfaces." <i>Langmuir</i> . Vol. 14, No. 19, pp. 5507-5516.
C154	Xu, Guofeng, Nan Yao, Ilhan A. Aksay, and John T. Groves. 1998. "Biomimetic Synthesis of Macroscopic-Scale Calcium Carbonate Thin Films. Evidence for a Multistep Assembly Process." <i>Journal of the American Chemical Society</i> . Vol. 120, No. 46, pp. 11977-11985.
C155	Yamada, Norihiro, Katsuhiko Ariga, Masanobu Naito, Kazuhiro Matsubara, and Emiko Koyama. 1998. "Regulation of $\beta$ -Sheet Structures Within Amyloid-Like $\beta$ -Sheet Assemblage from Tripeptide Derivatives." <i>Journal of the American Chemical Society</i> . Vol. 120, No. 47, pp. 12192-12199.
C156	Chusuei, Charles C., D. Wayne Goodman, Michael J. Van Stipdonk, Dina R. Justes, and Emile A. Schweikert. January 1, 1999. "Calcium Phosphate Phase Identification Using XPS and Time-of-Flight Cluster SIMS." <i>Analytical Chemistry</i> . Vol. 71, No. 1, pp. 149-153.
C157	Zubarev, Eugene R., Martin U. Pralle, Leiming Li, and Samuel I. Stupp. January 22, 1999. "Conversion of Supramolecular Clusters to Macromolecular Objects." <i>Science</i> . Vol. 283, pp. 523-526.

Examiner Signature	Date Considered
--------------------	-----------------

David Lukton

5-11-07

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/B/PTO		<b>Complete if Known</b>			
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (Use as many sheets as necessary)		Application Number	10/777,030		
		Filing Date	February 11, 2004		
		First Named Inventor	Samuel I. STUPP et al.		
		Art Unit	1654		
		Examiner Name	David Lukton		
Sheet	11	of	21	Attorney Docket Number	NANO 110 US3 (NU 22109/23005)

C158	Won, You-Yeon, H. Ted Davis, and Frank S. Bates. February 12, 1999. "Giant Wormlike Rubber Micelles." <i>Science</i> . Vol. 283, No. 5404, pp. 960-963.
C159	Corral, Claudio J., Aamir Siddiqui, Liancun Wu, Catherine L. Farrell, David Lyons, and Thomas A. Mustoe. February 1999. "Vascular Endothelial Growth Factor Is More Important Than Basic Fibroblastic Growth Factor During Ischemic Wound Healing." <i>Arch. Surg.</i> Vol. 134, pp. 200-205.
C160	Wheeler, B. C., J. M. Corey, G. J. Brewer, and D. W. Branch. February 1999. "Microcontact Printing for Precise Control of Nerve Cell Growth in Culture." <i>Journal of Biomechanical Engineering</i> . Vol. 121, pp. 73-78.
C161	Cao, H., Y. G. Zhao, S. T. Ho, E. W. Seelig, Q. H. Wang, and R. P. H. Chang. March 15, 1999. "Random Laser Action in Semiconductor Powder." <i>Physical Review Letters</i> . Vol. 82, No. 11, pp. 2278-2281.
C162	Aizenberg, Joanna, Andrew J. Black, and George M. Whitesides. April 8, 1999. "Control of Crystal Nucleation by Patterned Self-Assembled Monolayers." <i>Nature</i> . Vol. 398, pp. 495-498.
C163	Niklason, L. E., J. Gao, W. M. Abbott, K. K. Hirschi, S. Houser, R. Marini, and R. Langer. April 16, 1999. "Functional Arteries Grown in Vitro." <i>Science</i> . Vol. 284, pp. 489-493.
C164	Hahn, Jungseok and Stephen E. Webber. April 1999. "Modification of Surfaces by Covalent Attachment of Polymer Micelles." <i>Macromolecular Symposia</i> . Vol. 139, pp. 39-47.
C165	Liu, Yi, Duckhyun Kim, B. Timothy Himes, Stella Y. Chow, Timothy Schallert, Marion Murray, Alan Tessler, and Itzhak Fischer. June 1, 1999. "Transplants of Fibroblasts Genetically Modified to Express BDNF Promote Regeneration of Adult Rat Rubrospinal Axons and Recovery of Forelimb Function." <i>The Journal of Neuroscience</i> . Vol. 19, No. 11, pp. 4370-4387.
C166	Mehler, Mark F. and John A. Kessler. July 1999. "Progenitor Cell Biology: Implications for Neural Regeneration." <i>Arch. Neurol.</i> Vol. 56, pp. 780-784.
C167	Tirrell, M. October 27, 1999. "Biofunctionalization of Surfaces with Peptide Amphiphiles." <i>AVS: Science &amp; Technology</i> . Invited Paper BI-WeM7.
C168	McDonald, John W., Xiao-Zhong Liu, Yun Qu, Su Liu, Shannon K. Mickey, Dorothy Turetsky, David I. Gottlieb, and Dennis W. Choi. December 1999. "Transplanted Embryonic Stem Cells Survive, Differentiate and Promote Recovery in Injured Rat Spinal Cord." <i>Nature Medicine</i> . Vol. 5, No. 12, pp. 1410-1412.
C169	Bradt, Jens-Hilmar, Michael Mertig, Angelika Teresiak, and Wolfgang Pompe. 1999. "Biomimetic Mineralization of Collagen by Combined Fibril Assembly and Calcium Phosphate Formation." <i>Chem. Mater.</i> Vol. 11, No. 10, pp. 2694-2701.
C170	Braun, Paul V. and Samuel I. Stupp. 1999. "CdS Mineralization of Hexagonal, Lamellar, and Cubic Lyotropic Liquid Crystals." <i>Materials Research Bulletin</i> . Vol. 34, No. 3, pp. 463-469.
C171	Butler, C. E., I. V. Yannas, C. C. Compton, C. A. Correia, and D. P. Orgill. 1999. "Comparison of Cultured and Uncultured Keratinocytes Seeded into a Collagen-GAG Matrix for Skin Replacements." <i>British Journal of Plastic Surgery</i> . Vol. 52, pp. 127-132.
C172	Chai, C. S. and B. Ben-Nissan. 1999. "Bioactive Nanocrystalline Sol-Gel Hydroxyapatite Coatings." <i>Journal of Materials Science: Materials in Medicine</i> . Vol. 10, pp. 465-469.
C173	Clark, Thomas D., Kenji Kobayashi, and M. Reza Ghadiri. 1999. "Covalent Capture and Stabilization of Cylindrical $\beta$ -Sheet Peptide Assemblies." <i>Chem. Eur. J.</i> Vol. 5, No. 2, pp. 782-792.
C174	Cornish, J., K. E. Callon, C. Q.-X. Lin, C. L. Xiao, T. B. Mulvey, G. J. S. Cooper, and I. R. Reid. 1999. "Trifluoroacetate, a Contaminant in Purified Proteins, Inhibits Proliferation of Osteoblasts and Chondrocytes." <i>Am. J. Physiol. Endocrinol. Metab.</i> Vol. 277, pp. 779-783.
C175	Emoto, Kazunori, Yukio Nagasaki, and Kazunori Kataoka. 1999. "Coating of Surfaces with Stabilized Reactive Micelles from Poly(ethylene glycol)-Poly(DL-Lactic Acid) Block Copolymer." <i>Langmuir</i> . Vol. 15, No. 16, pp. 5212-5218.
C176	Fields, Gregg B. 1999. "Induction of Protein-like Molecular Architecture by Self-Assembly Processes." <i>Bioorganic &amp; Medicinal Chemistry</i> . Vol. 7, pp. 75-81.
C177	Haynes, Andrew J., Wei-Qun Huang, Jamie Mallah, Dajun Yang, Marc E. Lippman, and Lu-Yuan Li. 1999. "Angiopoietin-1 and Its Receptor Tie-2 Participate in the Regulation of Capillary-like Tubule

Examiner Signature	Date Considered
--------------------	-----------------

David Lukton

5-11-07



Substitute for form 1449A/B/PTO  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (Use as many sheets as necessary)			<b>Complete if Known</b>		
			Application Number	10/777,030	
			Filing Date	February 11, 2004	
			First Named Inventor	Samuel I. STUPP et al.	
			Art Unit	1654	
			Examiner Name	David Lukton	
Sheet	12	of	21	Attorney Docket Number	NANO 110 US3 (NU 22109/23005)

DL	C178	Formation and Survival of Endothelial Cells." <i>Microvascular Research</i> . Vol. 58, pp. 224-237.
	C179	Hwang, Julia J., Kevin Jaeger, James Hancock, and Samuel I. Stupp. 1999. "Organoapatite Growth on an Orthopedic Alloy Surface." <i>Journal of Biomedical Materials Research</i> . Vol. 47, pp. 504-515.
	C180	Ignjatović, Nenad, Simonida Tomić, Momčilo Dakić, Miroslav Miljković, Milenko Plavšić, and Dragan Biomaterials." <i>Biomaterials</i> . Vol. 20, pp. 809-816.
	C181	Lee, Kevin J. and Thomas M. Jessell. 1999. "The Specification of Dorsal Cell Fates in the Vertebrate Central Nervous System." <i>Annual Review of Neuroscience</i> . Vol. 22, pp. 261-294.
	C182	Lee, Kyujin C., Paul A. Carlson, Alex S. Goldstein, Paul Yager, and Michael H. Gelb. 1999. "Protection of a Decapeptide from Proteolytic Cleavage by Lipidation and Self-Assembly into High-Axial-Ratio Microstructures: A Kinetic and Structural Study." <i>Langmuir</i> . Vol. 15, No. 17, pp. 5500-5508.
	C183	Mao, Chuanbin, Hengde Li, Fuzhai Cui, Chunlai Ma, and Qinglin Feng. 1999. "Oriented Growth of Phosphates on Polycrystalline Titanium in a Process Mimicking Biomineralization." <i>Journal of Crystal Growth</i> . Vol. 206, pp. 308-321.
	C184	Miyaji, Fumiaki, Hyun-Min Kim, Shinichi Handa, Tadashi Kokubo, and Takashi Nakamura. 1999. "Bonelike Apatite Coating on Organic Polymers: Novel Nucleation Process Using Sodium Silicate Solution." <i>Biomaterials</i> . Vol. 20, pp. 913-919.
	C185	Pakalns, Teika, Craig L. Haverstick, Gregg B. Fields, James B. McCarthy, Daniel L. Mooradian, and Matthew Tirrell. 1999. "Cellular Recognition of Synthetic Peptide Amphiphiles in Self-Assembled Monolayer Films." <i>Biomaterials</i> . Vol. 20, pp. 2265-2279.
DL	C186	Pittenger, Mark F., Alastair M. Mackay, Stephen C. Beck, Rama K. Jaiswal, Robin Douglas, Joseph D. Mosca, Mark A. Moorman, Donald W. Simonetti, Stewart Craig, and Daniel R. Marshak. April 2, 1999. "Multilineage Potential of Adult Human Mesenchymal Stem Cells." <i>Science</i> . Vol. 284, pp. 143-147.
	C187	Rezania, Alireza, Robert Johnson, Anthony R. Lefkow, and Kevin E. Healy. 1999. "Bioactivation of Metal Oxide Surfaces. 1. Surface Characterization and Cell Response." <i>Langmuir</i> . Vol. 15, No. 20, pp. 6931-6939.
	C188	Rowley, Jon A., Gerard Madlambayan, and David J. Mooney. 1999. "Alginate Hydrogels as Synthetic Extracellular Matrix Materials." <i>Biomaterials</i> . Vol. 20, pp. 45-53.
	C189	Schense, Jason C. and Jeffrey A. Hubbell. 1999. "Cross-Linking Exogenous Bifunctional Peptides into Fibrin Gels with Factor XIIIa." <i>Bioconjugate Chem.</i> Vol. 10, No. 1, pp. 75-81.
	C190	Varma, H. K., Y. Yokogawa, F. F. Espinosa, Y. Kawamoto, K. Nishizawa, F. Nagata, and T. Kameyama. 1999. "In-Vitro Calcium Phosphate Growth over Functionalized Cotton Fibers." <i>Journal of Materials Science: Materials in Medicine</i> . Vol. 10, pp. 395-400.
	C191	Vernon, Robert B. and E. Helene Sage. 1999. "A Novel, Quantitative Model for Study of Endothelial Cell Migration and Sprout Formation Within Three-Dimensional Collagen Matrices." <i>Microvascular Research</i> . Vol. 57, pp. 188-193.
	C192	Wei, M., A. J. Ruys, M. V. Swain, S. H. Kim, B. K. Mithorpe, and C. C. Sorrell. 1999. "Interfacial Bond Strength of Electrophoretically Deposited Hydroxyapatite Coatings on Metals." <i>Journal of Materials Science: Materials in Medicine</i> . Vol. 10, pp. 401-409.
	C193	Yu, Ying-Ching, Vikram Roontga, Vladimir A. Daragan, Kevin H. Mayo, Matthew Tirrell, and Gregg B. Fields. 1999. "Structure and Dynamics of Peptide-Amphiphiles Incorporating Triple-Helical Proteinlike Molecular Architecture." <i>Biochemistry</i> . Vol. 38, No. 5, pp. 1659-1668.
	C194	Huq, N. Laila, Keith J. Cross, and Eric C. Reynolds. February 4, 2000. "Molecular Modelling of a Multiphosphorylated Sequence Motif Bound to Hydroxyapatite Surfaces." <i>Journal of Molecular Modeling</i> . Vol. 6, pp. 35-47.
DL	C195	Martinez, J. S., G. P. Zhang, P. D. Holt, H. -T. Jung, C. J. Carrano, M. G. Haygood, and Alison Butler. February 18, 2000. "Self-Assembling Amphiphilic Siderophores from Marine Bacteria." <i>Science</i> . Vol. 287, No. 5456, pp. 1245-1247.
		Verrecchio, Angela, Markus W. Germann, Barbara P. Schick, Brian Kung, Thomas Twardowski, and

Examiner Signature	Date Considered
--------------------	-----------------

David Lukton

5-11-06



Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/B/PTO			<b>Complete if Known</b>		
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (Use as many sheets as necessary)			Application Number	10/777,030	
			Filing Date	February 11, 2004	
			First Named Inventor	Samuel I. STUPP et al.	
			Art Unit	1654	
			Examiner Name	David Lukton	
Sheet	13	of	21	Attorney Docket Number	NANO 110 US3 (NU 22109/23005)

DL		James D. San Antonio. March 17, 2000. "Design of Peptides with High Affinities for Heparin and Endothelial Cell Proteoglycans." <i>The Journal of Biological Chemistry</i> . Vol. 275, No. 11, pp. 7701-7707.	
DL	C196	Cao, H., J. Y. Xu, E. W. Seelig, and R. P. H. Chang. May 22, 2000. "Microlaser Made of Disordered Media." <i>Applied Physics Letters</i> . Vol. 76, No. 21, pp. 2997-2999.	
	C197	Marler, Jennifer J., Amrita Guha, Jonathan Rowley, Rahul Koka, David Mooney, Joseph Upton, and Joseph Vacanti. May 2000. "Soft-Tissue Augmentation with Injectable Alginate and Syngeneic Fibroblasts." <i>Plastic and Reconstructive Surgery</i> . Vol. 105, No. 6, pp. 2049-2058.	
	C198	Holmes, Todd C., Sonsoles de Lacalle, Xing Su, Guosong Liu, Alexander Rich, and Shuguang Zhang. June 6, 2000. "Extensive Neurite Outgrowth and Active Synapse Formation on Self-Assembling Peptide Scaffolds." <i>Proceedings of the National Academy of Sciences of the United States of America</i> . Vol. 97, No. 12, pp. 6728-6733.	
	C199	Whaley, Sandra R., D. S. English, Evelyn L. Hu, Paul F. Barbara, and Angela M. Belcher. June 8, 2000. "Selection of Peptides with Semiconductor Binding Specificity for Directed Nanocrystal Assembly." <i>Nature</i> . Vol. 405, pp. 665-668.	
	C200	Sun, Xiu-xia and Chi-chen Wang. July 28, 2000. "The N-Terminal Sequence (Residues 1-65) Is Essential for Dimerization, Activities, and Peptide Binding of <i>Escherichia coli</i> DsbC." <i>The Journal of Biological Chemistry</i> . Vol. 275, No. 30, pp. 22743-22749.	
	C201	Hsu, Wei-Cherng, Mark H. Spilker, Ioannis V. Yannas, and Peter A. D. Rubin. August 2000. "Inhibition of Conjunctival Scarring and Contraction by a Porous Collagen-Glycosaminoglycan Implant." <i>Investigative Ophthalmology &amp; Visual Science</i> . Vol. 41, No. 9, pp. 2404-2411.	
DL	C202	Schlessinger, Joseph, Alexander N. Plotnikov, Omar A. Ibrahim, Anna V. Eliseenkova, Brian K. Yeh, Avner Yayon, Robert J. Linhardt, and Moosa Mohammadi. September 2000. "Crystal Structure of a Ternary FGF-FGFR-Heparin Complex Reveals a Dual Role for Heparin in FGFR Binding and Dimerization." <i>Molecular Cell</i> . Vol. 6, pp. 743-750.	
	C203	Sun, Y., J. B. Ketterson, and G. K. L. Wong. October 9, 2000. "Excitonic Gain and Stimulated Ultraviolet Emission in Nanocrystalline Zinc-Oxide Powder." <i>Applied Physics Letters</i> . Vol. 77, No. 15, pp. 2322-2324.	
	C204	Schuldiner, Maya, Ofra Yanuka, Joseph Itskovitz-Eldor, Douglas A. Melton, and Nissim Benvenisty. October 10, 2000. "Effects of Eight Growth Factors on the Differentiation of Cells Derived from Human Embryonic Stem Cells." <i>Proceedings of the National Academy of Sciences of the United States of America</i> . Vol. 97, No. 21, pp. 11307-11312.	
	C205	Altman, Michael, Peter Lee, Alexander Rich, and Shuguang Zhang. 2000. "Conformational Behavior of Ionic Self-Complementary Peptides." <i>Protein Science</i> . Vol. 9, pp. 1095-1105.	
	C206	Archer, Eric A., Noah T. Goldberg, Vincent Lynch, and Michael J. Krische. 2000. "Nanostructured Polymer Duplexes via the Covalent Casting of 1-Dimensional H-Bonding Motifs: A New Strategy for the Self-Assembly of Macromolecular Precursors." <i>Journal of the American Chemical Society</i> . Vol. 122, No. 20, pp. 5006-5007.	
	C207	Ariga, Katsuhiko, Jun-ichi Kikuchi, Masanobu Naito, Emiko Koyama, and Norihiro Yamada. 2000. "Modulated Supramolecular Assemblies Composed of Tripeptide Derivatives: Formation of Micrometer-Scale Rods, Nanometer-Size Needles, and Regular Patterns with Molecular-Level Flatness from the Same Compound." <i>Langmuir</i> . Vol. 16, No. 11, pp. 4929-4939.	
	C208	Beniash, E., W. Traub, A. Veis, and S. Weiner. 2000. "A Transmission Electron Microscope Study Using Vitrified Ice Sections of Predentin: Structural Changes in the Dentin Collagenous Matrix Prior to Mineralization." <i>Journal of Structural Biology</i> . Vol. 132, pp. 212-225.	
DL	C209	Bigi, Adriana, Elisa Boanini, Silvia Panzavolta, and Norberto Roveri. 2000. "Biomimetic Growth of Hydroxyapatite on Gelatin Films Doped with Sodium Polyacrylate." <i>Biomacromolecules</i> . Vol. 1, No. 4, pp. 752-756.	
DL	C210	Bourel, Line, Olivier Carion, Hélène Gras-Masse, and Oleg Melnyk. 2000. "The Deprotection of Lys(Mt) Revisited." <i>Journal of Peptide Science</i> . Vol. 6, pp. 264-270.	
DL	C211	Caplan, Michael R., Peter N. Moore, Shuguang Zhang, Roger D. Kamm, and Douglas A.	

Examiner Signature	David Lukton	Date Considered	5-11-07
--------------------	--------------	-----------------	---------

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/B/PTO  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (Use as many sheets as necessary)			<b>Complete if Known</b>		
			Application Number	10/777,030	
			Filing Date	February 11, 2004	
			First Named Inventor	Samuel I. STUPP et al.	
			Art Unit	1654	
			Examiner Name	David Lukton	
Sheet	14	of	21	Attorney Docket Number	NANO 110 US3 (NU 22109/23005)

		Lauffenburger. 2000. "Self-Assembly of a $\beta$ -Sheet Protein Governed by Relief of Electrostatic Repulsion Relative to van der Waals Attraction." <i>Biomacromolecules</i> . Vol. 1, No. 4, pp. 627-631.	
	C212	Cardullo, F., M. Crego Calama, B. H. M. Snellink-Ruël, J.-L. Weidmann, A. Bielejewski, R. Fokkens, N. M. M. Nibbering, P. Timmerman, and D. N. Reinhoudt. 2000. "Covalent Capture of Dynamic Hydrogen-Bonded Assemblies." <i>Chem. Commun.</i> Pp. 367-368.	
	C213	Chamberlain, L. J., I. V. Yannas, H-P. Hsu, G. R. Strichartz, and M. Spector. 2000. "Near-Terminus Axonal Structure and Function Following Rat Sciatic Nerve Regeneration Through a Collagen-GAG Matrix in a Ten-Millimeter Gap." <i>Journal of Neuroscience Research</i> . Vol. 60, pp. 666-677.	
	C214	David, Sunil A., Satish K. Awasthi, and P. Balaram. 2000. "The Role of Polar and Facial Amphipathic Character in Determining Lipopolysaccharide-Binding Properties in Synthetic Cationic Peptides." <i>Journal of Endotoxin Research</i> . Vol. 6, No. 3, pp. 249-256.	
	C215	Dori, Yoav, Havazelet Bianco-Peled, Sushil K. Satija, Gregg B. Fields, James B. McCarthy, and Matthew Tirrell. 2000. "Ligand Accessibility as Means to Control Cell Response to Bioactive Bilayer Membranes." <i>Journal of Biomedical Materials Research</i> . Vol. 50, pp. 75-81.	
	C216	Forns, Pilar, Janelle L. Lauer-Fields, Su Gao, and Gregg B. Fields. 2000. "Induction of Protein-Like Molecular Architecture by Monoalkyl Hydrocarbon Chains." <i>Biopolymers</i> . Vol. 54, pp. 531-546.	
	C217	Hisaeda, Yoshio, Eiji Ohshima, and Makiko Arimura. 2000. "Aggregation Behavior of Synthetic Peptide Lipids with Arginine in Aqueous Solution and Construction of a Vitamin B <sub>12</sub> Artificial Enzyme." <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> . Vol. 169, pp. 143-153.	
	C218	Kogiso, Masaki, Yuji Okada, Takeshi Hanada, Kiyoshi Yase, and Toshimi Shimizu. 2000. "Self-Assembled Peptide Fibers from Valylvaline Bola-Amphiphiles by a Parallel $\beta$ -Sheet Network." <i>Biochimica et Biophysica Acta</i> . Vol. 1475, pp. 346-352.	
	C219	Langer, Robert. 2000. "Biomaterials in Drug Delivery and Tissue Engineering: One Laboratory's Experience." <i>Accounts of Chemical Research</i> . Vol. 33, No. 2, pp. 94-101.	
	C220	Liu, X. D., M. Skold, T. Umino, Y. K. Zhu, D. J. Romberger, J. R. Spurzem, and S. I. Rennard. 2000. "Endothelial Cell-Mediated Type I Collagen Gel Contraction Is Regulated by Hemin." <i>J. Lab. Clin. Med.</i> Vol. 136, No. 2, pp. 100-109.	
	C221	Lu, Lichun, Susan J. Peter, Michelle D. Lyman, Hui-Lin Lai, Susan M. Leite, Janet A. Tamada, Shiro Uyama, Joseph P. Vacanti, Robert Langer, and Antonios G. Mikos. 2000. "In Vitro and in Vivo Degradation of Porous Poly(DL-Lactic-co-Glycolic Acid) Foams." <i>Biomaterials</i> . Vol. 21, pp. 1837-1845.	
	C222	Matsuura, T., R. Hosokawa, K. Okamoto, T. Kimoto, and Y. Akagawa. 2000. "Diverse Mechanisms of Osteoblast Spreading on Hydroxyapatite and Titanium." <i>Biomaterials</i> . Vol. 21, pp. 1121-1127.	
	C223	Ponticelli, Michael S., Robert M. Schinagl, Sudha Kadiyala, and Frank P. Barry. 2000. "Gelatin-Based Resorbable Sponge as a Carrier Matrix for Human Mesenchymal Stem Cells in Cartilage Regeneration Therapy." <i>Journal of Biomedical Materials Research</i> . Vol. 52, pp. 246-255.	
	C224	Powell, Sharon K., Jayashree Rao, Eva Roque, Motoyoshi Nomizu, Yuichiro Kuratomi, Yoshihiko Yamada, and Hynda K. Kleinman. 2000. "Neural Cell Response to Multiple Novel Sites on Laminin-1." <i>Journal of Neuroscience Research</i> . Vol. 61, pp. 302-312.	
	C225	Sakiyama-Elbert, Shelly E. and Jeffrey A. Hubbell. 2000. "Controlled Release of Nerve Growth Factor from a Heparin-Containing Fibrin-Based Cell Ingrowth Matrix." <i>Journal of Controlled Release</i> . Vol. 69, pp. 149-158.	
	C226	Sakiyama-Elbert, Shelly E. and Jeffrey A. Hubbell. 2000. "Development of Fibrin Derivatives for Controlled Release of Heparin-Binding Growth Factors." <i>Journal of Controlled Release</i> . Vol. 65, pp. 389-402.	
	C227	Thareja, R. K. and A. Mitra. 2000. "Random Laser Action in ZnO." <i>Appl. Phys.</i> Vol. B 71, pp. 181-184.	
	C228	Tunggal, Patrick, Neil Smyth, Mats Paulsson, and Mark-Christoph Ott. 2000. "Laminins: Structure and Genetic Regulation." <i>Microscopy Research and Technique</i> . Vol. 51, pp. 214-227.	
	C229	do Serro, Ana Paula Valagão Amadeu, Anabela Catarino Fernandes, and Benilde de Jesus Vieira Saramago. 2000. "Calcium Phosphate Deposition on Titanium Surfaces in the Presence of	

Examiner Signature	Date Considered
--------------------	-----------------

David Lukton 5-11-07

Substitute for form 1449A/B/PTO			<b>Complete if Known</b>	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (Use as many sheets as necessary)			Application Number	10/777,030
			Filing Date	February 11, 2004
			First Named Inventor	Samuel I. STUPP et al.
			Art Unit	1654
			Examiner Name	David Lukton
			Attorney Docket Number	NANO 110 US3 (NU 22109/23005)
Sheet	15	of	21	

		Fibronectin." <i>Journal of Biomedical Materials Research</i> . Vol. 49, pp. 345-352.	
SK	C230	Yamada, Norihiro and Katsuhiko Ariga. 2000. "Formation of $\beta$ -Sheet Assemblage with a View to Developing an Amyloid Model." <i>Synlett</i> . Vol. 5, pp. 575-586.	
	C231	Yang, Lin and Paschalis Alexandridis. 2000. "Physicochemical Aspects of Drug Delivery and Release from Polymer-Based Colloids." <i>Current Opinion in Colloid &amp; Interface Science</i> . Vol. 5, pp. 132-143.	
	C232	Yu, Huanran, Hiroshi Narusawa, Kisae Itoh, Akihiro Oshi, Narutoshi Yoshino, Kazuo Ohbu, Toshiaki Shirakawa, Kazuhiro Fukada, Masatoshi Fujii, Tadashi Kato, and Tsutomu Seimiya. 2000. "Hydrophilicity of Polar and Apolar Domains of Amphiphiles." <i>Journal of Colloid and Interface Science</i> . Vol. 229, pp. 375-390.	
	C233	Zhu, G., M. F. Mehler, P. C. Mabie, and J. A. Kessler. 2000. "Developmental Changes in Neural Progenitor Cell Lineage Commitment Do Not Depend on Epidermal Growth Factor Receptor Signaling." <i>Journal of Neuroscience Research</i> . Vol. 59, pp. 312-320.	
	C234	Orlic, Donald, Jan Kajstura, Stefano Chimenti, Igor Jakonuk, Stacie M. Anderson, Baosheng Li, James Pickel, Ronald McKay, Bernardo Nadal-Ginard, David M. Bodine, Annarosa Leri, and Piero Anversa. April 5, 2001. "Bone Marrow Cells Regenerate Infarcted Myocardium." <i>Nature</i> . Vol. 410, pp. 701-705.	
	C235	Vailhé, Bruno, Daniel Vittel, and Jean-Jacques Feige. April 2001. "In Vitro Models of Vasculogenesis and Angiogenesis." <i>Laboratory Investigation</i> . Vol. 81, No. 4, pp. 439-452.	
	C236	Davis, N. G., J. Teisen, C. Schuh, and D. C. Dunand. May 2001. "Solid-State Foaming of Titanium by Superplastic Expansion of Argon-Filled Pores." <i>J. Mater. Res.</i> Vol. 16, No. 5, pp. 1508-1519.	
	C237	Rabchevsky, Alexander G. and George M. Smith. May 2001. "Therapeutic Interventions Following Mammalian Spinal Cord Injury." <i>Arch. Neurol.</i> Vol. 58, pp. 721-726.	
	C238	Huang, Michael H., Samuel Mao, Henning Feick, Haoquan Yan, Yiyang Wu, Hannes Kind, Eicke Weber, Richard Russo, and Peidong Yang. June 8, 2001. "Room-Temperature Ultraviolet Nanowire Nanolasers." <i>Science</i> . Vol. 292, pp. 1897-1899.	
	C239	Lee, Kuen Yong and David J. Mooney. July 2001. "Hydrogels for Tissue Engineering." <i>Chemical Reviews</i> . Vol. 101, No. 7, pp. 1869-1879.	
SK	C240	Aggeli, A., I. A. Nyrkova, M. Bell, R. Harding, L. Carrick, T. C. B. McLeish, A. N. Semenov, and N. Boden. October 9, 2001. "Hierarchical Self-Assembly of Chiral Rod-Like Molecules as a Model for Peptide $\beta$ -Sheet Tapes, Ribbons, Fibrils, and Fibers." <i>Proceedings of the National Academy of Sciences of the United States of America</i> . Vol. 98, No. 21, pp. 11857-11862.	
	C241	Hartergerink, Jeffrey D., Elia Beniash, and Samuel I. Stupp. November 23, 2001. "Self-Assembly and Mineralization of Peptide-Amphiphile Nanofibers." <i>Science</i> . Vol. 294, pp. 1684-1688.	
	C242	Richardson, Thomas P., Martin C. Peters, Alessandra B. Ennett, and David J. Mooney. November 2001. "Polymeric System for Dual Growth Factor Delivery." <i>Nature Biotechnology</i> . Vol. 19, pp. 1029-1034.	
	C243	Mathew, Mathai and Shozo Takagi. November-December 2001. "Structures of Biological Minerals in Dental Research." <i>Journal of Research of the National Institute of Standards and Technology</i> . Vol. 106, No. 6, pp. 1035-1044.	
	C244	Woo, Byung Ho, Betsy F. Fink, Richard Page, Jay A. Schrier, Yeong Woo Jo, Ge Jiang, Michelle DeLuca, Henry C. Vasconez, and Patrick P. DeLuca. December 2001. "Enhancement of Bone Growth by Sustained Delivery of Recombinant Human Bone Morphogenetic Protein-2 in a Polymeric Matrix." <i>Pharmaceutical Research</i> . Vol. 18, No. 12, pp. 1747-1753.	
	C245	Barrère, F., P. Layrolle, C. A. Van Blitterswijk, and K. de Groot. 2001. "Biomimetic Coatings on Titanium: A Crystal Growth Study of Octacalcium Phosphate." <i>Journal of Materials Science: Materials in Medicine</i> . Vol. 12, pp. 529-534.	
	C246	Bianco-Peled, Havazelet, Yoav Dori, James Schneider, Li-Piin Sung, Sushil Satija, and Matthew Tirrell. 2001. "Structural Study of Langmuir Monolayers Containing Lipidated Poly(ethylene glycol) and Peptides." <i>Langmuir</i> . Vol. 17, No. 22, pp. 6931-6937.	
SK	C247	Cavalli, M., G. Gnappi, A. Montenero, D. Bersani, P. P. Lottici, S. Kaciulis, G. Mattogno, and M. Fini. 2001. "Hydroxy- and Fluorapatite Films on Ti Alloy Substrates: Sol-gel Preparation and	

Examiner Signature	Date Considered
--------------------	-----------------

David Lukton 5-11-07

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/B/PTO  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (Use as many sheets as necessary)			<b>Complete if Known</b>		
			Application Number	10/777,030	
			Filing Date	February 11, 2004	
			First Named Inventor	Samuel I. STUPP et al.	
			Art Unit	1654	
			Examiner Name	David Lukton	
Sheet	16	of	21	Attorney Docket Number	NANO 110 US3 (NU 22109/23005)

		Characterization." <i>Journal of Materials Science</i> . Vol. 36, pp. 3253-3260.	
DL	C248	Chang, John C., Gregory J. Brewer, and Bruce C. Wheeler. 2001. "Modulation of Neural Network Activity by Patterning." <i>Biosensors &amp; Bioelectronics</i> . Vol. 16, pp. 527-533.	
	C249	Chang, Sophia C. N., Jon A. Rowley, Geoffrey Tobias, Nicholas G. Genes, Amit K. Roy, David J. Mooney, Charles A. Vacanti, and Lawrence J. Bonassar. 2001. "Injection Molding of Chondrocyte/Alginate Constructs in the Shape of Facial Implants." <i>Journal of Biomedical Materials Research</i> . Vol. 55, pp. 503-511.	
	C250	Doi, Tomokiyo, Takatoshi Kinoshita, Hiroki Kamiya, Shintaro Washizu, Yoshiharu Tsujita, and Hiraoki Yoshimizu. 2001. "Aggregation of Polypeptide-Based Amphiphiles in Water." <i>Polymer Journal</i> . Vol. 33, No. 2, pp. 160-164.	
	C251	Gore, Tushar, Yoav Dori, Yeshayahu Talmon, Matthew Tirrell, and Havazelet Bianco-Peled. 2001. "Self-Assembly of Model Collagen Peptide Amphiphiles." <i>Langmuir</i> . Vol. 17, No. 17, pp. 5352-5360.	
	C252	Hoess, Ronald H. 2001. "Protein Design and Phage Display." <i>Chemical Reviews</i> . Vol. 101, No. 10, pp. 3205-3218.	
	C253	Huang, Eric J. and Louis F. Reichardt. 2001. "Neurotrophins: Roles in Neuronal Development and Function." <i>Annual Review of Neuroscience</i> . Vol. 24, pp. 677-736.	
	C254	Kam, L., W. Shain, J. N. Turner, and R. Bizios. 2001. "Axonal Outgrowth of Hippocampal Neurons on Micro-Scale Networks of Polylysine-Conjugated Laminin." <i>Biomaterials</i> . Vol. 22, pp. 1049-1054.	
DL	C255	Kikuchi, Masanori, Soichiro Itoh, Shizuko Ichinose, Kenichi Shinomiya, and Junzo Tanaka. 2001. "Self-Organization Mechanism in a Bone-Like Hydroxyapatite/Collagen Nanocomposite Synthesized in Vitro and Its Biological Reaction in Vivo." <i>Biomaterials</i> . Vol. 22, pp. 1705-1711.	
	C256	Liu, Yuelian, Pierre Layrolle, Joost de Bruijn, Clemens van Blitterswijk, and Klaas de Groot. 2001. "Biomimetic Coprecipitation of Calcium Phosphate and Bovine Serum Albumin on Titanium Alloy." <i>Journal of Biomedical Materials Research</i> . Vol. 57, pp. 327-335.	
	C257	Look, D. C. 2001. "Recent Advances in ZnO Materials and Devices." <i>Materials Science and Engineering</i> . Vol. B80, pp. 383-387.	
	C258	Matsui, Hiroshi, and Gary E. Doublerly, Jr. 2001. "Organization of Peptide Nanotubes into Macroscopic Bundles." <i>Langmuir</i> . Vol. 17, No. 25, pp. 7918-7922.	
	C259	Neet, K. E. and R. B. Campenot. 2001. "Receptor Binding, Internalization, and Retrograde Transport of Neurotrophic Factors." <i>CMLS, Cell Mol. Life Sci.</i> Vol. 58, pp. 1021-1035.	
	C260	Otsuka, Hidenori, Yukio Nagasaki, and Kazunori Kataoka. 2001. "Self-Assembly of Poly(ethylene glycol)-based Block Copolymers for Biomedical Applications." <i>Current Opinion in Colloid &amp; Interface Science</i> . Vol. 6, pp. 3-10.	
	C261	Shimizu, Toshimi, Rika Iwaura, Mitsutoshi Masuda, Takeshi Hanada, and Kiyoshi Yase. 2001. "Internucleobase-Interaction-Directed Self-Assembly of Nanofibers from Homo- and Heteroditopic 1, $\omega$ -Nucleobase Bolaamphiphiles." <i>Journal of the American Chemical Society</i> . Vol. 123, No. 25, pp. 5947-5955, S1-S16.	
	C262	Socrates, George. 2001. <i>Infrared and Raman Characteristic Group Frequencies: Tables and Charts</i> . Third Edition. Chichester, England: John Wiley & Sons Ltd.	
	C263	Spanos, Nikos and Petros G. Koutsoukos. 2001. "Model Studies of the Effect of Orthophospho-L-Serine on Biological Mineralization." <i>Langmuir</i> . Vol. 17, No. 3, pp. 866-872.	
	C264	Takadama, Hiroaki, Hyun-Min Kim, Tadashi Kokubo, and Takashi Nakamura. 2001. "TEM-EDX Study of Mechanism of Bonelike Apatite Formation on Bioactive Titanium Metal in Simulated Body Fluid." <i>Journal of Biomedical Materials Research</i> . Vol. 57, pp. 441-448.	
DL	C265	Tanihara, Masao, Yasuo Suzuki, Eriko Yamamoto, Atsushi Noguchi, and Yutaka Mizushima. 2001. "Sustained Release of Basic Fibroblast Growth Factor and Angiogenesis in a Novel Covalently Crosslinked Gel of Heparin and Alginate." <i>Journal of Biomedical Materials Research</i> . Vol. 56, pp. 216-221.	
DL	C266	Torchilin, Vladimir P. 2001. "Structure and Design of Polymeric Surfactant-Based Drug Delivery Systems." <i>Journal of Controlled Release</i> . Vol. 73, pp. 137-172.	
DL	C267	Yeung, C. K., L. Lauer, A. Offenhäusser, and W. Knoll. 2001. "Modulation of the Growth and	

Examiner Signature	Date Considered
--------------------	-----------------

David Lukton 5-11-07

Substitute for form 1449A/B/PTO			<b>Complete if Known</b>		
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (Use as many sheets as necessary)			Application Number	10/777,030	
			Filing Date	February 11, 2004	
			First Named Inventor	Samuel I. STUPP et al.	
			Art Unit	1654	
			Examiner Name	David Lukton	
			Attorney Docket Number	NANO 110 US3 (NU 22109/23005)	
Sheet	17	of	21		

		Guidance of Rat Brain Stem Neurons Using Patterned Extracellular Matrix Proteins." <i>Neuroscience Letters</i> . Vol. 301, pp. 147-150.	
	C268	Zubarev, Eugene R., Martin U. Pralle, Eli D. Sone, and Samuel I. Stupp. 2001. "Self-Assembly of Dendron Rodcoil Molecules into Nanoribbons." <i>Journal of the American Chemical Society</i> . Vol. 123, No. 17, pp. 4105-4106.	
	C269	Hirschi, Karen K., Lihua Lai, Narasimhaswamy S. Belaguli, David A. Dean, Robert J. Schwartz, and Warren E. Zimmer. February 22, 2002. "Transforming Growth Factor- $\beta$ Induction of Smooth Muscle Cell Phenotype Requires Transcriptional and Post-transcriptional Control of Serum Response Factor." <i>The Journal of Biological Chemistry</i> . Vol. 277, No. 8, pp. 6287-6295.	
	C270	Xu, Weiming, Lizhi Liu, and Ian G. Charles. February 2002. "Microencapsulated iNOS-expressing Cells Cause Tumor Suppression in Mice." <i>The FASEB Journal</i> . Vol. 16, pp. 213-215.	
	C271	Zubarev, Eugene R., Martin U. Pralle, Eli D. Sone, and Samuel I. Stupp. February 2002. "Scaffolding of Polymers by Supramolecular Nanoribbons." <i>Advanced Materials</i> . Vol. 14, No. 3, pp. 198-203.	
	C272	Teng, Yang D., Erin B. Lavik, Xianlu Qu, Kook I. Park, Jitka Ourednik, David Zurakowski, Robert Langer, and Evan Y. Snyder. March 5, 2002. "Functional Recovery Following Traumatic Spinal Cord Injury Mediated by a Unique Polymer Scaffold Seeded with Neural Stem Cells." <i>Proceedings of the National Academy of Sciences of the United States of America</i> . Vol. 99, No. 5, pp. 3024-3029.	
	C273	Bradbury, Elizabeth J., Lawrence D. F. Moon, Reena J. Popat, Von R. King, Gavin S. Bennett, Preena N. Patel, James W. Fawcett, and Stephen B. McMahon. April 11, 2002. "Chondroitinase ABC Promotes Functional Recovery After Spinal Cord Injury." <i>Nature</i> . Vol. 416, pp. 636-640.	
	C274	Hartgerink, Jeffrey D., Elia Beniash, and Samuel I. Stupp. April 16, 2002. "Supramolecular Chemistry and Self-Assembly Special Feature: Peptide-Amphiphile Nanofibers: A Versatile Scaffold for the Preparation of Self-Assembling Materials." <i>Proceedings of the National Academy of Sciences of the United States of America</i> . Vol. 99, No. 8, pp. 5133-5138.	
	C275	Vauthey, Sylvain, Steve Santoso, Haiyan Gong, Nicki Watson, and Shuguang Zhang. April 16, 2002. "Molecular Self-Assembly of Surfactant-like Peptides to Form Nanotubes and Nanovesicles." <i>Proceedings of the National Academy of Sciences of the United States of America</i> . Vol. 99, No. 8, pp. 5355-5360.	
	C276	Nowak, Andrew P., Victor Breedveld, Lisa Pakstis, Bulent Ozbaz, David J. Pine, Darrin Pochan, and Timothy J. Deming. May 23, 2002. "Rapidly Recovering Hydrogel Scaffolds from Self-Assembling Diblock Copolypeptide Amphiphiles." <i>Nature</i> . Vol. 417, pp. 424-428.	
	C277	GrandPré, Tadzia, Shuxin Li, and Stephen M. Strittmatter. May 30, 2002. "Nogo-66 Receptor Antagonist Peptide Promotes Axonal Regeneration." <i>Nature</i> . Vol. 417, pp. 547-551.	
	C278	Storch, Alexander and Johannes Schwarz. May 2002. "Neural Stem Cells and Neurodegeneration." <i>Current Opinion in Investigational Drugs</i> . Vol. 3, No. 5, pp. 774-781.	
	C279	Lendlein, Andreas and Robert Langer. May 31, 2002. "Biodegradable, Elastic Shape-Memory Polymers for Potential Biomedical Applications." <i>Science</i> . Vol. 296, pp. 1673-1676.	
	C280	Qiu, Jin, Dongming Cai, Haining Dai, Marietta McAttee, Paul N. Hoffman, Barbara S. Bregman, and Marie T. Filbin. June 13, 2002. "Spinal Axon Regeneration Induced by Elevation of Cyclic AMP." <i>Neuron</i> . Vol. 34, pp. 895-903.	
	C281	Catledge, Shane A., Marc D. Fries, Yogesh K. Vohra, William R. Lacefield, Jack E. Lemons, Shanna Woodard, and Ramakrishna Venugopalan. June-August 2002. "Nanostructured Ceramics for Biomedical Implants." <i>Journal of Nanoscience and Nanotechnology</i> . Vol. 2, No. 3/4, pp. 293-312.	
	C282	Alsberg, Eben, Kenneth W. Anderson, Amru Albeiruti, Jon A. Rowley, and David J. Mooney. September 17, 2002. "Engineering Growing Tissues." <i>Proceedings of the National Academy of Sciences of the United States of America</i> . Vol. 99, No. 19, pp. 12025-12030.	
	C283	Kay, Sarina, Anil Thapa, Karen M. Haberstroh, and Thomas J. Webster. October 2002. "Nanostructured Polymer/Nanophase Ceramic Composites Enhance Osteoblast and Chondrocyte Adhesion." <i>Tissue Engineering</i> . Vol. 8, No. 5, pp. 753-761.	
	C284	Chang, Hua, Chester W. Brown, and Martin M. Matzuk. December 2002. "Genetic Analysis of the Mammalian Transforming Growth Factor- $\beta$ Superfamily." <i>Endocrine Reviews</i> . Vol. 23, No. 6, pp.	

Examiner Signature		Date Considered	
--------------------	--	-----------------	--

5-11-07

Substitute for form 1449A/B/PTO			<b>Complete if Known</b>		
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (Use as many sheets as necessary)			Application Number	10/777,030	
			Filing Date	February 11, 2004	
			First Named Inventor	Samuel I. STUPP et al.	
			Art Unit	1654	
			Examiner Name	David Lukton	
Sheet	18	of	21	Attorney Docket Number	NANO 110 US3 (NU 22109/23005)

	787-823.	
DL	C285	Busqué, Félix, Stephanie A. Hopkins, and Joseph P. Konopelski. 2002. "Progress Toward a Peptidomimetic of Laminin-Derived Pentapeptide YIGSR: Synthesis of the Unique Tricyclic Core Structure." <i>J. Org. Chem.</i> Vol. 67, No. 17, pp. 6097-6103.
	C286	Canaple, Laurence, Annemie Rehor, and David Hunkeler. 2002. "Improving Cell Encapsulation Through Size Control." <i>J. Biomater. Sci. Polymer Edn.</i> Vol. 13, No. 7, pp. 783-796.
	C287	Caplan, Michael R., Elissa M. Schwartzfarb, Shuguang Zhang, Roger D. Kamm, and Douglas A. Lauffenburger. 2002. "Control of Self-Assembling Oligopeptide Matrix Formation Through Systematic Variation of Amino Acid Sequence." <i>Biomaterials.</i> Vol. 23, pp. 219-227.
	C288	Chen, Zhi Jiang, Yvonne Ughrin, and Joel M. Levine. 2002. "Inhibition of Axon Growth by Oligodendrocyte Precursor Cells." <i>Molecular and Cellular Neuroscience.</i> Vol. 20, pp. 125-139.
	C289	Cornish, Toby, Darren W. Branch, Bruce C. Wheeler, and James T. Campanelli. 2002. "Microcontact Printing: A Versatile Technique for the Study of Synaptogenic Molecules." <i>Molecular and Cellular Neuroscience.</i> Vol. 20, pp. 140-153.
	C290	Costa, Silvia, Thierry Planchenault, Cecile Charriere-Bertrand, Yann Mouchel, Christiane Fages, Sharon Juliano, Thierry Lefrançois, Georgia Barlovatz-Meimon, and Marcienne Tardy. 2002. "Astroglial Permissivity for Neuritic Outgrowth in Neuron-Astrocyte Cocultures Depends on Regulation of Laminin Bioavailability." <i>GLIA.</i> Vol. 37, pp. 105-113.
DL	C291	Gariépy, Jean, Sandrine Rémy, Xiuguo Zhang, James R. Ballinger, Eleonora Bolewska-Pedyczak, Michael Rauth, and Stuart K. Bisland. 2002. "A Simple Two-Step Approach for Introducing a Protected Diaminedithiol Chelator During Solid-Phase Assembly of Peptides." <i>Bioconjugate Chem.</i> Vol. 13, No. 3, pp. 679-684.
	C292	Glättli, Alice, Xavier Daura, Dieter Seebach, and Wilfred F. van Gunsteren. 2002. "Can One Derive the Conformational Preference of a $\beta$ -Peptide from Its CD Spectrum?" <i>Journal of the American Chemical Society.</i> Vol. 124, No. 44, pp. 12972-12978.
	C293	Gutwein, Luke G. and Thomas J. Webster. 2002. "Osteoblast and Chondrocyte Proliferation in the Presence of Alumina and Titania Nanoparticles." <i>Journal of Nanoparticle Research.</i> Vol. 4, pp. 231-238.
	C294	Huang, Ning-Ping, Gabor Csucs, Kazunori Emoto, Yukio Nagasaki, Kazunori Kataoka, Marcus Textor, and Nicholas D. Spencer. 2002. "Covalent Attachment of Novel Poly(ethylene glycol)-Poly(DL-lactic acid) Copolymeric Micelles to TiO <sub>2</sub> Surfaces." <i>Langmuir.</i> Vol. 18, No. 1, pp. 252-258.
	C295	Issac, Roy and Jean Chmielewski. 2002. "Approaching Exponential Growth with a Self-Replicating Peptide." <i>Journal of the American Chemical Society.</i> Vol. 124, No. 24, pp. 6808-6809.
	C296	Joshi, Mital and Michael G. Fehlings. 2002. "Development and Characterization of a Novel, Graded Model of Clip Compressive Spinal Cord Injury in the Mouse: Part 1. Clip Design, Behavioral Outcomes, and Histopathology." <i>Journal of Neurotrauma.</i> Vol. 19, No. 2, pp. 175-190.
	C297	Joshi, Mital and Michael G. Fehlings. 2002. "Development and Characterization of a Novel, Graded Model of Clip Compressive Spinal Cord Injury in the Mouse: Part 2. Quantitative Neuroanatomical Assessment and Analysis of the Relationships Between Axonal Tracts, Residual Tissue, and Locomotor Recovery." <i>Journal of Neurotrauma.</i> Vol. 19, No. 2, pp. 191-203.
	C298	Kruger, Ryan G., Patrick Dostal, and Dewey G. McCafferty. 2002. "An Economical and Preparative Orthogonal Solid Phase Synthesis of Fluorescein and Rhodamine Derivatized Peptides: FRET Substrates for the <i>Staphylococcus aureus</i> Sortase SrtA Transpeptidase Reaction." <i>Chem. Commun.</i> Pp. 2092-2093.
	C299	Lauer, L., A. Vogt, C. K. Yeung, W. Knoll, and A. Offenhäuser. 2002. "Electrophysiological Recordings of Patterned Rat Brain Stem Slice Neurons." <i>Biomaterials.</i> Vol. 23, pp. 3123-3130.
DL	C300	Lavik, Erin, Yang D. Teng, Evan Snyder, and Robert Langer. 2002. "Speeding Neural Stem Cells on Scaffolds of PGA, PLA, and Their Copolymers." <i>Methods in Molecular Biology: Neural Stem Cells: Methods and Protocols.</i> Vol. 198, pp. 89-97.
	C301	Marini, Davide M., Wonmuk Hwang, Douglas A. Lauffenburger, Shuguang Zhang, and Roger D. Kamm. 2002. "Left-Handed Helical Ribbon Intermediates in the Self-Assembly of a $\beta$ -Sheet Peptide."

Examiner Signature	Date Considered
--------------------	-----------------

David Lukton

5-11-07

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/B/PTO		<b>Complete if Known</b>			
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (Use as many sheets as necessary)		Application Number	10/777,030		
		Filing Date	February 11, 2004		
		First Named Inventor	Samuel I. STUPP et al.		
		Art Unit	1654		
		Examiner Name	David Lukton		
Sheet	19	of	21	Attorney Docket Number	NANO 110 US3 (NU 22109/23005)

		<i>Nano Letters</i> . Vol. 2, No. 4, pp. 295-299.	
	C302	Ohsaki, Mio, Tatsuya Okuda, Akihiro Wada, Toshiya Hirayama, Takuro Niidome, and Haruhiko Aoyagi. 2002. "In Vitro Gene Transfection Using Dendritic Poly(L-lysine)." <i>Bioconjugate Chem.</i> Vol. 13, No. 3, pp. 510-517.	
	C303	Okano, Hideyuki. 2002. "Stem Cell Biology of the Central Nervous System." <i>Journal of Neuroscience Research</i> . Vol. 69, pp. 698-707.	
	C304	Parmar, Malin, Charlotta Skogh, Anders Björklund, and Kenneth Campbell. 2002. "Regional Specification of Neurosphere Cultures Derived from Subregions of the Embryonic Telencephalon." <i>Molecular and Cellular Neuroscience</i> . Vol. 21, pp. 645-656.	
	C305	Porter, A. E., L. W. Hobbs, V. Benezra Rosen, and M. Spector. 2002. "The Ultrastructure of the Plasma-Sprayed Hydroxyapatite-bone Interface Predisposing to Bone Bonding." <i>Biomaterials</i> . Vol. 23, pp. 725-733.	
	C306	Rowley, Jon A. and David J. Mooney. 2002. "Alginate Type and RGD Density Control Myoblast Phenotype." <i>Journal of Biomedical Materials Research</i> . Vol. 60, pp. 217-223.	
	C307	Santoso, Steve S., Sylvain Vauthey, and Shuguang Zhang. 2002. "Structures, Function and Applications of Amphiphilic Peptides." <i>Current Opinion in Colloid &amp; Interface Science</i> . Vol. 7, pp. 262-266.	
	C308	Thiébaud, Pierre, Lars Lauer, Wolfgang Knoll, and Andreas Offenhäuser. 2002. "PDMS Device for Patterned Application of Microfluids to Neuronal Cells Arranged by Microcontact Printing." <i>Biosensors &amp; Bioelectronics</i> . Vol. 17, pp. 87-93.	
	C309	Tryoen-Tóth, Petra, Dominique Vautier, Youssef Haikel, Jean-Claude Voegel, Pierre Schaaf, Johanna Chluba, and Joëlle Ogier. 2002. "Viability, Adhesion, and Bone Phenotype of Osteoblast-like Cells on Polyelectrolyte Multilayer Films." <i>Journal of Biomedical Materials Research</i> . Vol. 60, pp. 657-667.	
	C310	Young, Wise. 2002. "Spinal Cord Contusion Models." <i>Progress in Brain Research</i> . Vol. 137, pp. 231-255.	
	C311	Lutolf, Matthias P., Franz E. Weber, Hugo G. Schmoekel, Jason C. Schense, Thomas Kohler, Ralph Müller, and Jeffrey A. Hubbell. May 2003. "Repair of Bone Defects Using Synthetic Mimetics of Collagenous Extracellular Matrices." <i>Nature Biotechnology</i> . Vol. 21, pp. 513-518.	
	C312	Shaw, Derek and Molly S. Shoichet. May 2003. "Toward Spinal Cord Injury Repair Strategies: Peptide Surface Modification of Expanded Poly(Tetrafluoroethylene) Fibers for Guided Neurite Outgrowth in Vitro." <i>The Journal of Craniofacial Surgery</i> . Vol. 14, No. 3, pp. 308-316.	
	C313	Cheng, Hongwei, Wei Jiang, Frank M. Phillips, Rex C. Haydon, Ying Peng, Lan Zhou, Hue H. Luu, Naili An, Benjamin Breyer, Pantila Vanichakarn, Jan Paul Szatkowski, Jae Yoon Park, and Tong-Chuan He. August 2003. "Osteogenic Activity of the Fourteen Types of Human Bone Morphogenetic Proteins (BMPs)." <i>The Journal of Bone &amp; Joint Surgery</i> . Vol. 85-A, No. 8, pp. 1544-1552, 141.	
	C314	Pavlov, Georges, Stéphanie Finet, Karine Tatarenko, Evgueniya Korneeva, and Christine Ebel. 2003. "Conformation of Heparin Studied with Macromolecular Hydrodynamic Methods and X-ray Scattering." <i>Eur. Biophys. J.</i> Vol. 32, pp. 437-449.	
	C315	Arinzeh, Treena Livingston, Susan J. Peter, Michael P. Archambault, Christian van den Bos, Steve Gordon, Karl Kraus, Alan Smith, and Sudha Kadiyala. October 2003. "Allogeneic Mesenchymal Stem Cells Regenerate Bone in a Critical-Sized Canine Segmental Defect." <i>The Journal of Bone &amp; Joint Surgery</i> . Vol. 85-A, No. 10, pp. 1927-1935.	
	C316	Zhang, Shuguang. October 2003. "Fabrication of Novel Biomaterials Through Molecular Self-Assembly." <i>Nature Biotechnology</i> . Vol. 21, No. 10, pp. 1171-1178.	
	C317	Aggeli, Amalia, Mark Bell, Lisa M. Carrick, Colin W. G. Fishwick, Richard Harding, Peter J. Mawer, Sheena E. Radford, Andrew E. Strong, and Neville Boden. 2003. "pH as a Trigger of Peptide $\beta$ -Sheet Self-Assembly and Reversible Switching Between Nematic and Isotropic Phases." <i>Journal of the American Chemical Society</i> . Vol. 125, No. 32, pp. 9619-9628.	
	C318	Alsina, Jordi and Fernando Albericio. 2003. "Solid-Phase Synthesis of C-Terminal Modified Peptides." <i>Biopolymers (Peptide Science)</i> . Vol. 71, pp. 454-477.	
	C319	Anthony, Shawn G. 2003. "Injectable Biomaterials for Bone Tissue Engineering."	

Examiner Signature	Date Considered
--------------------	-----------------

David Lukton

5-11-07



Substitute for form 1449A/B/PTO		<b>Complete if Known</b>			
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (Use as many sheets as necessary)		Application Number	10/777,030		
		Filing Date	February 11, 2004		
		First Named Inventor	Samuel I. STUPP et al.		
		Art Unit	1654		
		Examiner Name	David Lukton		
Sheet	20	of	21	Attorney Docket Number	NANO 110 US3 (NU 22109/23005)

22	C320	Boontheekul, Tanyarut and David J. Mooney. 2003. "Protein-Based Signaling Systems in Tissue Engineering." <i>Current Opinion in Biotechnology</i> . Vol. 14, pp. 559-565.
	C321	Fauza, Dario O. 2003. "Tissue Engineering: Current State of Clinical Application." <i>Current Opinion in Pediatrics</i> . Vol. 15, pp. 267-271.
	C322	Ganesh, S. and R. Jayakumar. 2003. "Structural Transitions Involved in a Novel Amyloid-Like $\beta$ -Sheet Assemblage of Tripeptide Derivatives." <i>Biopolymers</i> . Vol. 70, pp. 336-345.
	C323	Ganesh, S., S. Prakash, and R. Jayakumar. 2003. "Spectroscopic Investigation on Gel-Forming $\beta$ -Sheet Assemblage of Peptide Derivatives." <i>Biopolymers</i> . Vol. 70, pp. 346-354.
	C324	Goeden-Wood, Nichole L., Jay D. Keasling, and Susan J. Muller. 2003. "Self-Assembly of a Designed Protein Polymer into $\beta$ -Sheet Fibrils and Responsive Gels." <i>Macromolecules</i> . Vol. 36, No. 8, pp. 2932-2938.
22	C325	Ishihara, Masayuki, Kiyohaya Obara, Toshiaki Ishizuka, Masanori Fujita, Masato Sato, Kazunori Masuoka, Yoshio Saito, Hirofumi Yura, Takemi Matsui, Hidemi Hattori, Makoto Kikuchi, and Akira Kurita. 2003. "Controlled Release of Fibroblast Growth Factors and Heparin from Photocrosslinked Chitosan Hydrogels and Subsequent Effect on <i>in Vivo</i> Vascularization." <i>Journal of Biomedical Materials Research</i> . Vol. 64A, pp. 551-559.
	C326	Malkar, Navdeep B., Janelle L. Lauer-Fields, Darius Juska, and Gregg B. Fields. 2003. "Characterization of Peptide-Amphiphiles Possessing Cellular Activation Sequences." <i>Biomacromolecules</i> . Vol. 4, No. 3, pp. 518-528.
	C327	Niece, Krista L., Jeffrey D. Hartgerink, Jack J. M. Donners, and Samuel I. Stupp. 2003. "Self-Assembly Combining Two Bioactive Peptide-Amphiphile Molecules into Nanofibers by Electrostatic Attraction." <i>Journal of the American Chemical Society</i> . Vol. 125, No. 24, pp. 7146-7147.
	C328	Steward, Oswald, Binhai Zheng, and Marc Tessier-Lavigne. 2003. "False Resurrections: Distinguishing Regenerated from Spared Axons in the Injured Central Nervous System." <i>The Journal of Comparative Neurology</i> . Vol. 459, pp. 1-8.
	C329	Wu, Sufan, Yoshihisa Suzuki, Yoko Ejiri, Toru Noda, Hongliang Bai, Masaaki Kitada, Kazuya Kataoka, Masayoshi Ohta, Hiroto Chou, and Chizuka Ide. 2003. "Bone Marrow Stromal Cells Enhance Differentiation of Cocultured Neurosphere Cells and Promote Regeneration of Injured Spinal Cord." <i>Journal of Neuroscience Research</i> . Vol. 72, pp. 343-351.
	C330	Yamada, Norihiro, Tsukasa Komatsu, Hirotsugu Yoshinaga, Kayo Yoshizawa, Susumu Edo, and Masashi Kunitake. 2003. "Self-Supporting Elastic Film without Covalent Linkages as a Hierarchically Integrated $\beta$ -Sheet Assembly." <i>Angew. Chem. Int. Ed.</i> Vol. 42, pp. 5496-5499.
	C331	Zhang, Yan, Hongwei Gu, Zhimou Yang, and Bing Xu. 2003. "Supramolecular Hydrogels Respond to Ligand-Receptor Interaction." <i>Journal of the American Chemical Society</i> . Vol. 125, No. 45, pp. 13680-13681.
	C332	Hirano, Yoshiaki and David J. Mooney. January 5, 2004. "Peptide and Protein Presenting Materials for Tissue Engineering." <i>Advanced Materials</i> . Vol. 16, No. 1, pp. 17-25.
	C333	Silva, Gabriel A., Catherine Czeisler, Krista L. Niece, Elia Beniash, Daniel A. Harrington, John A. Kessler, and Samuel I. Stupp. February 27, 2004. "Selective Differentiation of Neural Progenitor Cells by High-Epitope Density Nanofibers." <i>Science</i> . Vol. 303, pp. 1352-1355.
	C334	Faulkner, Jill R., Julia E. Herrmann, Michael J. Woo, Keith E. Tansey, Ngan B. Doan, and Michael V. Sofroniew. March 3, 2004. "Reactive Astrocytes Protect Tissue and Preserve Function after Spinal Cord Injury." <i>The Journal of Neuroscience</i> . Vol. 24, No. 9, pp. 2143-2155.
	C335	Cao, Renhai, Anna Eriksson, Hajime Kubo, Kari Alitalo, Yihai Cao, Johan Thyberg. March 19, 2004. "Comparative Evaluation of FGF-2-, VEGF-A-, and VEGF-C-Induced Angiogenesis, Lymphangiogenesis, Vascular Fenestrations, and Permeability." <i>Circulation Research</i> . Vol. 94, pp. 664-670.
	C336	Anthony, Shawn G. March 28-April 1, 2004. "Self-Assembling Nanofiber Matrix for Bone Regeneration." <i>The 227<sup>th</sup> ACS National Meeting</i> . Anaheim, CA.
22	C337	Donners, Jack J. J. M. March 28-April 1, 2004. "Growth Factor Binding Self-Assembling Nanofiber Networks for Tissue Regeneration." <i>The 227<sup>th</sup> ACS National Meeting</i> . Anaheim, CA.













Examiner Signature	Date Considered
--------------------	-----------------

David Lukton 5-11-07



Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/B/PTO  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (Use as many sheets as necessary)			<b>Complete if Known</b>		
			Application Number	10/777,030	
			Filing Date	February 11, 2004	
			First Named Inventor	Samuel I. STUPP et al.	
			Art Unit	1654	
			Examiner Name	David Lukton	
Sheet	21	of	21	Attorney Docket Number	NANO 110 US3 (NU 22109/23005)

	C338	Nikulina Elena, J. Lille Tidwell, Hai Ning Dai, Barbara S. Bregman, and Marie T. Filbin. June 8, 2004. "The Phosphodiesterase Inhibitor Rolipram Delivered after a Spinal Cord Lesion Promotes Axonal Regeneration and Functional Recovery." <i>Proceedings of the National Academy of Sciences of the United States of America</i> . Vol. 101, No. 23, pp. 8786-8790.
	C339	Pearse, Damien D., Francisco C. Pereira, Alexander E. Marcillo, Margaret L. Bates, Yerko A. Berrocal, Marie T. Filbin, and Mary Bartlett Bunge. June 2004. "cAMP and Schwann Cells Promote Axonal Growth and Functional Recovery After Spinal Cord Injury." <i>Nature Medicine</i> . Vol. 10, No. 6, pp. 610-616.
	C340	Lu, Paul, Hong Yang, Leonard L. Jones, Marie T. Filbin, and Mark H. Tuszynski. July 14, 2004. "Combinatorial Therapy with Neurotrophins and cAMP Promotes Axonal Regeneration beyond Sites of Spinal Cord Injury." <i>The Journal of Neuroscience</i> . Vol. 24, No. 28, pp. 6402-6409.
	C341	Lee, K. W., J. J. Yoon, J. H. Lee, S. Y. Kim, H. J. Jung, S. J. Kim, J. W. Joh, H. H. Lee, D. S. Lee, and S. K. Lee. 2004. "Sustained Release of Vascular Endothelial Growth Factor From Calcium-Induced Alginate Hydrogels Reinforced by Heparin and Chitosan." <i>Transplantation Proceedings</i> . Vol. 36, pp. 2464-2465.
	C342	Matsumura, Sachiko, Shinobu Uemura, and Hisakazu Mihara. 2004. "Fabrication of Nanofibers with Uniform Morphology by Self-Assembly of Designed Peptides." <i>Chem. Eur. J.</i> Vol. 10, pp. 2789-2794.
	C343	Sieminski, A. L., R. P. Hebbel, and K. J. Gooch. 2004. "The Relative Magnitudes of Endothelial Force Generation and Matrix Stiffness Modulate Capillary Morphogenesis in Vitro." <i>Experimental Cell Research</i> . Vol. 297, pp. 574-584.
	C344	Vandermeulen, Guido W. M. and Harm-Anton Klok. 2004. "Peptide/Protein Hybrid Materials: Enhanced Control of Structure and Improved Performance through Conjugation of Biological and Synthetic Polymers." <i>Macromolecular Bioscience</i> . Vol. 4, pp. 383-398.
	C345	Wang, Lin-Fa and Meng Yu. 2004. "Epitope Identification and Discovery Using Phage Display Libraries: Applications in Vaccine Development and Diagnostics." <i>Current Drug Targets</i> . Vol. 5, No. 1, pp. 1-15.
	C346	Sayle, Roger. Printed November 9, 2005. "Physiological Ionization and pKa Prediction." <a href="http://www.daylight.com/meetings/emug00/Sayle/pkappredict.html">http://www.daylight.com/meetings/emug00/Sayle/pkappredict.html</a> . Pp. 1-13.
	C347	Bull, Steve R., Mustafa O. Guler, Rafael E. Bras, Thomas J. Meade, and Samuel I. Stupp. 2005. "Self-Assembled Peptide Amphiphile Nanofibers Conjugated to MRI Contrast Agents." <i>Nano Letters</i> . Vol. 5, No. 1, pp. 1-4.
	C348	Guler, Mustafa O., Stephen Soukasene, James F. Hulvat, and Samuel I. Stupp. 2005. "Presentation and Recognition of Biotin on Nanofibers Formed by Branched Peptide Amphiphiles." <i>Nano Letters</i> . Vol. 5, No. 2, pp. 249-252.
	C349	Loudon, M. "Amino Acid Structures at Physiological pH." Printed June 5, 2006. <a href="http://www.brynmawr.edu/Acads/Chem/mnerzsto/amino_acids.htm">www.brynmawr.edu/Acads/Chem/mnerzsto/amino_acids.htm</a> , amino_acids_2.gif, and amino_acids3.htm.

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 608. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup>Applicant's unique citation designation number (optional). <sup>2</sup>Applicant is to place a check mark here if English language Translation is attached.

David Lukton 5-11-07

Examiner Signature		Date Considered	
--------------------	--	-----------------	--